

=> fil reg; d'ide
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STRUCTURE FILE UPDATES: 16 JAN 2007 HIGHEST RN 917560-96-4
DICTIONARY FILE UPDATES: 16 JAN 2007 HIGHEST RN 917560-96-4

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 99085-47-9 REGISTRY
ED Entered STN: 16 Nov 1985
CN Complement decay-accelerating factor (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CD55 antigen
CN DAF
CN Decay-accelerating factor
CN Decay-accelerating factor glycoproteins
CN Glycoproteins (specific proteins and subclasses), DAF
MF Unspecified
CI MAN
SR CA
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN,
EMBASE, PHAR, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1079 REFERENCES IN FILE CA (1907 TO DATE)
29 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1086 REFERENCES IN FILE CAPLUS (1907 TO DATE)

INVENTOR SEARCH

=> => fil jic pascal biotechno biosis esbio biotechds lifesci confsci dissabs
bioeng scisearch

FILE 'JICST-EPLUS' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'PASCAL' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'BIOTECHNO' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'BIOSIS' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'ESBIOBASE' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'BIOTECHDS' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'LIFESCI' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'CONFSCI' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'BIOENG' ENTERED AT 16:54:35 ON 17 JAN 2007

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FILE 'SCISEARCH' ENTERED AT 16:54:35 ON 17 JAN 2007

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=> d que 176

L67 306 SEA VOLLMERS H?/AU

L68 10926 SEA MUELLER HERMELINK H?/AU OR MUELLER H?/AU OR HERMELINK
H?/AU

L69 7655 SEA CD55 OR CD 55 OR DECAY ACCELERATING FACTOR

L71 51 SEA 23132?

L76 14 SEA (L67 AND L68) AND (L69 OR L71)

=> fil medl; d que 125

FILE 'MEDLINE' ENTERED AT 16:54:37 ON 17 JAN 2007

FILE LAST UPDATED: 16 Jan 2007 (20070116/UP). FILE COVERS 1950 TO DATE.

All regular MEDLINE updates from November 15 to December 16 have been
added to MEDLINE, along with 2007 Medical Subject Headings (MeSH(R))
and 2007 tree numbers.

identif... The annual reload will be available in early 2007. res method of identif... the database...

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
L23      674 SEA FILE=MEDLINE ABB=ON  MUELLER HERMELINK H?/AU OR MUELLER
          H?/AU OR HERMELINK H?/AU
L24      50 SEA FILE=MEDLINE ABB=ON  VOLLMERS H?/AU
L25      1 SEA FILE=MEDLINE ABB=ON  L23 AND L24
```

=> fil embase; d que 146

FILE 'EMBASE' ENTERED AT 16:54:38 ON 17 JAN 2007
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FILE COVERS 1974 TO 17 Jan 2007 (20070117/ED)

EMBASE is now updated daily. SDI frequency remains weekly (default) and biweekly.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
L37      53 SEA FILE=EMBASE ABB=ON  VOLLMERS H?/AU
L38      896 SEA FILE=EMBASE ABB=ON  MUELLER HERMELINK H?/AU OR MUELLER
          H?/AU OR HERMELINK H?/AU
L39      1317 SEA FILE=EMBASE ABB=ON  DECAY ACCELERATING FACTOR/CT
L46      8 SEA FILE=EMBASE ABB=ON  (L37 AND L38) OR ((L37 OR L38) AND
          L39)
```

=> fil wpix; d que 153

FILE 'WPIX' ENTERED AT 16:54:39 ON 17 JAN 2007
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FILE LAST UPDATED: 15 JAN 2007 <20070115/UP>
MOST RECENT THOMSON SCIENTIFIC UPDATE: 200704 <200704/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> YOU ARE IN THE NEW AND ENHANCED DERWENT WORLD PATENTS INDEX <<<

>>> IPC Reform reclassification data for the backfile is being loaded into the database during the first half of January 2007. There will not be any update date (UP) written for the reclassified documents, but they can be identified by 20060101/UPIC. <<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT:
http://www.stn-international.de/training_center/patents/stn_guide.pdf

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://scientific.thomson.com/support/patents/coverage/latestupdates/>

PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE
http://www.stn-international.de/stndatabases/details/ipc_reform.html and
<http://scientific.thomson.com/media/scpdf/ipcrdwpi.pdf>

>>> FOR DETAILS ON THE NEW AND ENHANCED DERWENT WORLD PATENTS INDEX
PLEASE SEE

http://www.stn-international.de/stndatabases/details/dwpi_r.html <<<

>>> New and revised Manual Codes went live in Derwent World Patents Index
To view the lists of new, revised and retired codes for both CPI and
EPI, please go to:

<http://scientific.thomson.com/dwpi-manualcoderevision> <<<

'BI ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

L50 14 SEA FILE=WPIX ABB=ON VOLLMERS H?/AU
L51 2606 SEA FILE=WPIX ABB=ON MUELLER HERMELINK H?/AU OR MUELLER H?/AU
OR HERMELINK H?/AU
L52 119 SEA FILE=WPIX ABB=ON CD55/BI,ABEX OR CD 55/BI,ABEX OR DECAY
ACCELERATING FACTOR/BI,ABEX
L53 1 SEA FILE=WPIX ABB=ON (L50 AND L51) OR ((L50 OR L51) AND L52)

=> fil capl; d que 15; d que 19; s 15 or 19

FILE 'CAPLUS' ENTERED AT 16:54:40 ON 17 JAN 2007

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FILE COVERS 1907 - 17 Jan 2007 VOL 146 ISS 4

FILE LAST UPDATED: 16 Jan 2007 (20070116/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L1 48 SEA FILE=CAPLUS ABB=ON VOLLMERS H?/AU
L2 5844 SEA FILE=CAPLUS ABB=ON MUELLER HERMELINK H?/AU OR MUELLER
H?/AU OR HERMELINK H?/AU
L3 25 SEA FILE=CAPLUS ABB=ON L1 AND L2
L4 362 SEA FILE=CAPLUS ABB=ON CD55/OBI OR CD 55/OBI
L5 2 SEA FILE=CAPLUS ABB=ON L3 AND L4

L1 48 SEA FILE=CAPLUS ABB=ON VOLLMERS H?/AU
L2 5844 SEA FILE=CAPLUS ABB=ON MUELLER HERMELINK H?/AU OR MUELLER

H2/AU OR HERMELINK H2/AU 'Medline' 23132/OBI
 L7 4 SEA FILE=CAPLUS ABB=ON 23132/OBI
 L9 4 SEA FILE=CAPLUS ABB=ON (L1 OR L2) AND L7

L80 6 L5 OR L9

=> dup rem 125,180,153,176,146

FILE 'MEDLINE' ENTERED AT 16:58:40 ON 17 JAN 2007

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 PROCESSING COMPLETED FOR L25
 PROCESSING COMPLETED FOR L80
 PROCESSING COMPLETED FOR L53
 PROCESSING COMPLETED FOR L76
 PROCESSING COMPLETED FOR L46

L81 22 DUP REM L25 L80 L53 L76 L46 (8 DUPLICATES REMOVED)
 ANSWER '1' FROM FILE MEDLINE
 ANSWERS '2-7' FROM FILE CAPLUS
 ANSWER '8' FROM FILE WPIX
 ANSWERS '9-11' FROM FILE PASCAL
 ANSWERS '12-15' FROM FILE BIOSIS
 ANSWER '16' FROM FILE BIOTECHDS
 ANSWERS '17-22' FROM FILE EMBASE

=> d ibib ed abs 1-22

L81	ANSWER 1 OF 22	MEDLINE on STN	DUPLICATE 6
ACCESSION NUMBER:	96084039	MEDLINE	<u>Full-text</u>
DOCUMENT NUMBER:	PubMed ID: 7492750		
TITLE:	Efficient immortalization of rheumatoid synovial tissue B-lymphocytes. A comparison between the techniques of electric field-induced and PEG fusion.		
AUTHOR:	Krenn V; von Landenberg P; Wozniak E; Kissler C; Hermelink H K; Zimmermann U; Vollmers H P		
CORPORATE SOURCE:	Institut fur Pathologie, Universitat Wurzburg, Germany.		
SOURCE:	Human antibodies and hybridomas, (1995) Vol. 6, No. 2, pp.		

47-51.

Journal code: 9014461; ISSN: 0956-960X.

PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199601
 ENTRY DATE: Entered STN: 17 Feb 1996
 Last Updated on STN: 17 Feb 1996
 Entered Medline: 11 Jan 1996

ED Entered STN: 17 Feb 1996
 Last Updated on STN: 17 Feb 1996
 Entered Medline: 11 Jan 1996

AB In this study, B-cells isolated from rheumatoid synovial tissue were immortalized, without prior in vitro stimulation, by means of electric-field induced fusion and conventional PEG fusion in order to compare the efficiency of these methods. Two myeloma cell lines were used as fusion partners, the murine myeloma Ag8 and the murine-human heteromyeloma HAB-1. The results of seven fusion experiments performed simultaneously with identical cell populations showed that fusion frequencies obtained by electrofusion were 4 to 35 times higher than by the PEG fusion technique. The morphological and immunohistochemical evaluation of synovial tissues used for fusion showed that only tissues exhibiting a follicular distribution of B-cells with a high percentage of CD 22-positive lymphocytes gave rise to high fusion yields and produced B-cell clones, whereas synovial tissues with the same percentage of plasma cells but lower percentages of CD 22 lymphocytes yielded very low fusion rates. In conclusion, electrofusion is more efficient for immortalizing small amounts of synovial tissue B-lymphocytes than PEG fusion, since high fusion frequencies could be obtained by this technique without the need for prior in vitro stimulation. Synovial tissue exhibiting a follicular distribution of B-lymphocytes with high percentages of CD 22-positive lymphocytes gave rise to high hybridoma yields and therefore an ideal source of human rheumatoid B-cell clones.

L81 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2005:1289419 CAPLUS Full-text
 DOCUMENT NUMBER: 144:35307
 TITLE: CFR-1 isoform-binding polypeptides or antibodies and conjugates for diagnosis and treatment of cancer
 INVENTOR(S): Vollmers, Heinz Peter;
 Mueller-Hermelink, Hans Konrad; Hensel, Frank
 PATENT ASSIGNEE(S): Debiovision Inc., Can.
 SOURCE: PCT Int. Appl., 131 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005116076	A2	20051208	WO 2005-IB2480	20050126
WO 2005116076	A3	20060406		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

AB The present invention features methods of identifying, from healthy donors, polypeptides, such as antibodies, that are specific for neoplasm, polypeptides identified using such methods, and their use in the treatment and diagnosis of neoplasms.

L81 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 7

ACCESSION NUMBER: 1994:128916 CAPLUS Full-text
 DOCUMENT NUMBER: 120:128916
 TITLE: Characterization of four new gastric cancer cell lines
 AUTHOR(S): Vollmers, H. Peter; Stulle, Konrad;
 Daemmerich, Jobst; Pfaff, Martin; Papadopoulos, T.;
 Betz, Christoph; Saal, Katharina;
 Mueller-Hermelink, Hans Konrad
 CORPORATE SOURCE: Inst. Pathol., Wuerzburg, W-8700, Germany
 SOURCE: Virchows Archiv B: Cell Pathology Including Molecular
 Pathology (1993), 63(6), 335-343
 CODEN: VAAZA2; ISSN: 0340-6075
 DOCUMENT TYPE: Journal
 LANGUAGE: English

ED Entered STN: 19 Mar 1994

AB Four well differentiated gastric adenocarcinoma cell lines from German patients have been established from primary tumors (St 23132, St 3051) and lymph node metastases (St 2474, St 2957). The tumor cells were isolated by enzymic or mech. treatment. All four lines grew as solid tumors in nude mice and formed colonies in soft agar. The doubling time of the cells in culture was 25-32 h. Further characteristics of the lines were a considerable chromosomal aneuploidy, (the chromosomal nos. varying from 30-109 with many numerical and structural abnormalities), a stable keratin expression (Ck 8, 18, 19), the expression and secretion of CEA and CA-19-9 and the overexpression of c-myc. The four stomach cancer cell lines described here are not only a useful addition to the small number of existing lines, but also represent ideal tools for studying tumorigenicity of human stomach cancers in vitro and in vivo.

L81 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:451503 CAPLUS Full-text
 DOCUMENT NUMBER: 143:6288
 TITLE: Anti-idiotypic antibodies for human monoclonal antibody
 SC-1
 INVENTOR(S): Vollmers, Heinz Peter;
 Mueller-Hermelink, Hans Konrad
 PATENT ASSIGNEE(S): H3 Pharma Inc., Can.; Debiovision Inc.
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005047456	A2	20050526	WO 2004-IB4407	20041115
WO 2005047456	A3	20060323		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,
 SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG

DE 10352977 A1 20050609 DE 2003-10352977 20031113
 AU 2004288870 A1 20050526 AU 2004-288870 20041115
 CA 2546323 A1 20050526 CA 2004-2546323 20041115
 EP 1694708 A2 20060830 EP 2004-806561 20041115

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
 HR, IS, YU

PRIORITY APPLN. INFO.:

DE 2003-10352977 A 20031113

WO 2004-IB4407 W 20041115

ED Entered STN: 27 May 2005

AB The authors disclose the preparation and characterization of anti-idiotypic
 antibodies for the human monoclonal antibody SC-1.

L81 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:451421 CAPLUS Full-text

DOCUMENT NUMBER: 143:6286

TITLE: Adenocarcinoma-specific antibody SAM-6, fragments and
 conjugates for cancer diagnosis and therapy

INVENTOR(S): Vollmers, Heinz; Mueller-Hermelink,
 Hans-Konrad

PATENT ASSIGNEE(S): Oncomab G.m.b.H., Germany

SOURCE: PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005047332	A1	20050526	WO 2004-EP12970	20041112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1531162	A1	20050518	EP 2003-26161	20031114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004289821	A1	20050526	AU 2004-289821	20041112
CA 2545454	A1	20050526	CA 2004-2545454	20041112
EP 1709083	A1	20061011	EP 2004-797921	20041112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				

PRIORITY APPLN. INFO.:

EP 2003-26161 A 20031114

DE 2002-10229906 A 20020704

WO 2004-EP12970 W 20041112

ED Entered STN: 27 May 2005

AB The present invention features a polypeptide, such as an antibody produced by the hybridoma SAM-6 and its use in the treatment and diagnosis of neoplasms.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L81 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:441814 CAPLUS Full-text

DOCUMENT NUMBER: 133:53690

TITLE: Substance for producing highly effective antitumor medicaments

INVENTOR(S): Vollmers, Heinz Peter;
Mueller-Hermelink, Hans Konrad

PATENT ASSIGNEE(S): Germany

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000037489	A2	20000629	WO 1999-EP10329	19991222
WO 2000037489	A3	20001109		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19909771	A1	20000629	DE 1999-19909771	19990305
CA 2356189	A1	20000629	CA 1999-2356189	19991222
EP 1141019	A2	20011010	EP 1999-969227	19991222
EP 1141019	B1	20040421		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002534357	T	20021015	JP 2000-589558	19991222
AU 772579	B2	20040429	AU 2000-27955	19991222
AT 264873	T	20040515	AT 1999-969227	19991222
PT 1141019	T	20040930	PT 1999-969227	19991222
ES 2219108	T3	20041116	ES 1999-969227	19991222
AU 2004203479	A1	20040826	AU 2004-203479	20040729
PRIORITY APPLN. INFO.:			DE 1998-19859248	A 19981222
			DE 1999-19909771	A 19990305
			WO 1999-EP10329	W 19991222

ED Entered STN: 30 Jun 2000

AB A gastric carcinoma-specific isoform of glycoprotein CD55/DAF containing a tumor-specific carbohydrate structure is obtained from membrane preps. from human adenocarcinoma cell line 23132 and used to screen candidate tumor-binding and apoptosis-inducing substances for their ability to bind to the CD55/DAF isoform, to determine their potential usefulness in tumor diagnosis and therapy. The test substances may be peptides, peptidomimetics, antibodies, antibody fragments, or antibody derivs. (except for monoclonal antibody SC-1 directed to CD55).

L81 ANSWER 8 OF 22 WPIX COPYRIGHT 2007

THE THOMSON CORP on STN

ACCESSION NUMBER: 2000-477068 [42] C2000-143524 [42]
 DOC. NO. CIP: C2000-143524 [42]
 TITLE: New glycoprotein with tumor-specific glycosylation, useful in screening for agents for treating or diagnosing tumors, contains the CD55 primary amino acid sequence
 DERWENT CLASS: B04; D16
 INVENTOR: MUELLER-HERMELINK H K; MULLER-HERMELINK H K; VOELLMERS H P; VOLLMERS H P
 PATENT ASSIGNEE: (MUEL-I) MUELLER-HERMELINK H K; (MULL-I) MULLER-HERMELINK H; (MULL-I) MULLER-HERMELINK H K; (VOLL-I) VOLLMERS H; (VOLL-I) VOLLMERS H P
 COUNTRY COUNT: 87
 PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DE 19909771	A1	20000629	(200042)	* DE	22	[13]
WO 2000037489	A2	20000629	(200042)	DE		
AU 2000027955	A	20000712	(200048)	EN		
EP 1141019	A2	20011010	(200167)	DE		
JP 2002534357	W	20021015	(200282)	JA	49	
EP 1141019	B1	20040421	(200428)	DE		
DE 59909264	G	20040527	(200436)	DE		
AU 772579	B2	20040429	(200457)	EN		
AU 2004203479	A1	20040826	(200476)	# EN		
ES 2219108	T3	20041116	(200477)	ES		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19909771	A1	DE 1999-19909771	19990305
DE 59909264	G	DE 1999-59909264	19991222
EP 1141019	A2	EP 1999-969227	19991222
EP 1141019	B1	EP 1999-969227	19991222
DE 59909264	G	EP 1999-969227	19991222
ES 2219108	T3	EP 1999-969227	19991222
WO 2000037489	A2	WO 1999-EP10329	19991222
EP 1141019	A2	WO 1999-EP10329	19991222
JP 2002534357	W	WO 1999-EP10329	19991222
EP 1141019	B1	WO 1999-EP10329	19991222
DE 59909264	G	WO 1999-EP10329	19991222
AU 2000027955	A	AU 2000-27955	19991222
AU 772579	B2	AU 2000-27955	19991222
JP 2002534357	W	JP 2000-589558	19991222
AU 2004203479	A1	AU 2004-203479	20040729

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 772579	B2	Previous Publ
AU 2004203479	A1	Div ex
DE 59909264	G	Based on
ES 2219108	T3	Based on
AU 2000027955	A	Based on
EP 1141019	A2	Based on
JP 2002534357	W	Based on
		AU 2000027955 A
		AU 772579 B
		EP 1141019 A
		EP 1141019 A
		WO 2000037489 A
		WO 2000037489 A
		WO 2000037489 A

EP 1141019 B1 Based on WO 2000037489 A
 DE 59909264 G Based on WO 2000037489 A
 AU 772579 B2 Based on WO 2000037489 A

PRIORITY APPLN. INFO: DE 1998-19859248 19981222
 DE 1999-19909771 19990305
 AU 2004-203479 20040729

ED 20050705

AN 2000-477068 [42] WPIX

AB DE 19909771 A1 UPAB: 20050705

NOVELTY - A glycoprotein (I) which comprises at least a segment of the primary amino acid sequence of CD55 and has a tumor-specific pattern of glycosylation, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
 (1) a method for the recovery of (I); and (2) substances (II) that bind specifically to (I) and initiate a phosphorylation cascade.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Agents that bind specifically to (I) induce apoptosis and/or initiate a phosphorylation cascade.

USE - (I) are used to screen for its specific binding agents (II), particularly those that recognize its specific sugar structure. (II) are used for the induction of apoptosis, for the treatment or diagnosis (including imaging) of tumors and to initiate a CD55-mediated phosphorylation cascade (all claimed).

Member(0002)

ABEQ WO 2000037489 A2 UPAB 20050705

NOVELTY - A glycoprotein (I) which comprises at least a segment of the primary amino acid sequence of CD55 and has a tumor-specific pattern of glycosylation, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for the recovery of (I); and

(2) substances (II) that bind specifically to (I) and initiate a phosphorylation cascade.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Agents that bind specifically to (I) induce apoptosis and/or initiate a phosphorylation cascade.

USE - (I) are used to screen for its specific binding agents (II), particularly those that recognize its specific sugar structure. (II) are used for the induction of apoptosis, for the treatment or diagnosis (including imaging) of tumors and to initiate a CD55-mediated phosphorylation cascade (all claimed).

L81 ANSWER 9 OF 22 PASCAL COPYRIGHT 2007 INIST-CNRS. ALL RIGHTS RESERVED.
 on STN DUPLICATE 3

ACCESSION NUMBER: 2002-0248437 PASCAL Full-text

COPYRIGHT NOTICE: Copyright .COPYRGT. 2002 INIST-CNRS. All rights reserved.

TITLE (IN ENGLISH): Regulation of the new coexpressed CD55 (decay-accelerating factor) receptor on stomach carcinoma cells involved in antibody SC-1-induced apoptosis

AUTHOR: HENSEL Frank; HERMANN Ralph; BRAENDLEIN Stephanie; KRENN Veit; SCHMAUSSER Bernd; GEIS Steffen; MUELLER-HERMELINK Hans Konrad; VOLLMERS H. Peter

CORPORATE SOURCE: Institute for Pathology, University of Wuerzburg, Wuerzburg, Germany, Federal Republic of

SOURCE: Fab. Fab. and Laboratory investigation (2001), 81(11):1553-1563, 15 refs., 1 p. 1/2
ISSN: 0023-6837 CODEN: LAINAW

DOCUMENT TYPE: Journal
BIBLIOGRAPHIC LEVEL: Analytic
COUNTRY: United States
LANGUAGE: English
AVAILABILITY: INIST-8078, 354000100017670080

UP 20020604

AN 2002-0248437 PASCAL Full-text

CP Copyright .COPYRG. 2002 INIST-CNRS. All rights reserved.

AB The human monoclonal antibody SC-1 was isolated from a patient with a diffuse-type adenocarcinoma of the stomach using somatic cell hybridization. The immunoglobulin (Ig)M antibody reacts specifically with diffuse- (70%) and intestinal-type (25%) gastric adenocarcinoma and induces apoptosis in vitro and in vivo. When used in clinical trials with stomach carcinoma patients, significant apoptotic and regressive effects in primary tumors have been observed with the antibody SC-1. The SC-1 receptor is a new 82 kd membrane-bound isoform of glycosylphosphatidylinositol (GPI)-linked CD55 (decay - accelerating factor, DAF). CD55 is known to protect cells from lysis through autologous complement and is coexpressed with the ubiquitously distributed 70 kd isoform. The SC-1-specific CD55 isoform is up-regulated shortly after antibody binding, followed by an internalization of the antibody/receptor-complex, whereas the membranous expression of wild-type CD55 remains unchanged. The apoptotic process is marked by cleavage of cytokeratin 18, indicating the involvement of caspase-6 in the apoptotic process. In contrast to other apoptotic pathways, a cleavage of poly(ADP-ribose)polymerase (PARP) is not observed. The expression of the cell-cycle regulator c-myc becomes up-regulated, whereas expression of topoisomerase II α is down-regulated. Induction of apoptosis leads to an increase in the internal Ca^{sup.2.sup.} concentration, which is not necessary for the apoptotic process but for the transport of newly synthesized SC-1-specific CD55 isoform to the membrane.

L81 ANSWER 10 OF 22 PASCAL COPYRIGHT 2007 INIST-CNRS. ALL RIGHTS RESERVED.
on STN DUPLICATE 4

ACCESSION NUMBER: 2000-0003046 PASCAL Full-text

COPYRIGHT NOTICE: Copyright .COPYRG. 2000 INIST-CNRS. All rights reserved.

TITLE (IN ENGLISH): Characterization of glycosylphosphatidylinositol-linked molecule CD55/decay-accelerating factor as the receptor

AUTHOR: HENSEL F.; HERMANN R.; SCHUBERT C.; ABE N.; SCHMIDT K.; FRANKE A.; SHEVCHENKO A.; MANN M.; MUELLER-HERMELINK H. K.; VOLLMERS H. P.

CORPORATE SOURCE: Institut fuer Pathologie, 97080 Wuerzburg, Germany, Federal Republic of; European Molecular Biology Laboratory, 69012 Heidelberg, Germany, Federal Republic of

SOURCE: Cancer research : (Baltimore), (1999), 59(20), 5299-5306, 45 refs.

ISSN: 0008-5472 CODEN: CNREA8

DOCUMENT TYPE: Journal
BIBLIOGRAPHIC LEVEL: Analytic
COUNTRY: United States
LANGUAGE: English
AVAILABILITY: INIST-5088, 354000088034140410
UP 20001101

AN 2000-0003048 PASCAL Full-text
 CP Copyright .COPYRGT. 2000 INIST-CNRS. All rights reserved.
 AB The human monoclonal antibody SC-1 induces apoptosis of stomach carcinoma cells and is currently used in a clinical Phase II trial. The antibody binds to a target molecule that is preferentially expressed on diffuse- and intestinal-type stomach cancer cells and shows a very restricted expression on other normal and malignant tissues. In this paper, we show that the SC-I receptor is a stomach carcinoma-associated isoform of CD55 [membrane-bound decay-accelerating factor (DAF)-B] with a relative molecular mass of approximately 82 kDa. The antigenic site of SC-1 is an N-linked carbohydrate residue. Cross-linking of the DAF receptor increases apoptotic activity. SC-I binding induces tyrosine phosphorylation of three proteins of approximately 60, 75, and 110 kDa, whereas a serine residue of an approximately 35-kDa protein is dephosphorylated. Expression of caspase-3 (CPP32) and caspase-8 (FLICE) is elevated, and activation of these caspases occurs. These data show that a tumor-specific variant form DAF is involved in apoptosis and can be used for adjuvant therapeutical purposes on gastric carcinoma.

L81 ANSWER 11 OF 22 PASCAL COPYRIGHT 2007 INIST-CNRS. ALL RIGHTS RESERVED.
 on STN DUPLICATE 5

ACCESSION NUMBER: 1998-0072316 PASCAL Full-text
 COPYRIGHT NOTICE: Copyright .COPYRGT. 1998 INIST-CNRS. All rights reserved.
 TITLE (IN ENGLISH): Tumor-specific apoptosis induced by the human monoclonal antibody SC-1 : A new therapeutical approach for stomach cancer
 AUTHOR: VOLLMERS H. P.; HENSEL F.; HERMANN R.; DAEMMRICH J.; WOZNIAK E.; GESSNER P.; HERRMANN B.; ZIMMERMANN U.; MUELLER-HERMELINK H. K.
 CORPORATE SOURCE: Institut fuer Pathologie, Josef-Schneider-Str. 2, 97080 Wuerzburg, Germany, Federal Republic of; Lehrstuhl fuer Biotechnologie, Am Hubland, Universitaet Wuerzburg, 97080 Wuerzburg, Germany, Federal Republic of
 SOURCE: Oncology reports, (1998), 5(1), 35-40, 25 refs. ISSN: 1021-335X
 DOCUMENT TYPE: Journal
 BIBLIOGRAPHIC LEVEL: Analytic
 COUNTRY: Greece
 LANGUAGE: English
 AVAILABILITY: INIST-26534, 354000077284890040

UP 20001101

AN 1998-0072316 PASCAL Full-text
 CP Copyright .COPYRGT. 1998 INIST-CNRS. All rights reserved.
 AB Stomach cancer is one of the most frequently occurring cancers worldwide with a very poor prognosis, even after complete gastrectomy. We describe here an alternative therapeutical approach using a human monoclonal antibody (SC-1), which was isolated from a patient with diffuse-type gastric adenocarcinoma. We demonstrate that the antibody significantly reduces stomach cancer growth in vivo, by inducing tumor-specific apoptosis and that the antibody, even delivered in high doses, shows no toxic crossreactivity to other organs or tissues. The data presented here show that tumor-specific apoptosis can be induced and they give rise to the hope that human monoclonal antibodies with biological activity might present a completely new type of adjuvant cancer therapy.

L81 ANSWER 12 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

2002:22161 BIOSIS Full-text
 PREVIOUS DOCUMENT NUMBER: PREV200200022161
 TITLE: Immunotherapy for stomach carcinoma with the human monoclonal antibody SC-1: New data on CD55/SC-1 receptor signalling and apoptotic mechanisms.
 AUTHOR(S): Vollmers, H. Peter [Reprint author]; Hensel, Frank; Hermann, Ralph; Schmausser, Bernd; Braendlein, Stephanie; Mueller-Hermelink, Hans-Konrad
 CORPORATE SOURCE: Pathology, University of Wuerzburg, Wuerzburg, Germany
 SOURCE: Proceedings of the American Association for Cancer Research Annual Meeting, (March, 2001) Vol. 42, pp. 845-846. print. Meeting Info.: 92nd Annual Meeting of the American Association for Cancer Research. New Orleans, LA, USA. March 24-28, 2001. ISSN: 0197-016X.
 DOCUMENT TYPE: Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LANGUAGE: English
 ENTRY DATE: Entered STN: 26 Dec 2001
 Last Updated on STN: 25 Feb 2002
 ED Entered STN: 26 Dec 2001
 Last Updated on STN: 25 Feb 2002

L81 ANSWER 13 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:289147 BIOSIS Full-text
 DOCUMENT NUMBER: PREV200200289147
 TITLE: Immunotherapy for stomach cancer with the apoptosis-inducing human monoclonal antibody SC-1.
 AUTHOR(S): Vollmers, H. P. [Reprint author]; Hensel, F. [Reprint author]; Braendlein, S. [Reprint author]; Timmermann, W.; Illert, B.; Wilhelm, M.; Reindl, L.; Thiede, A.; Mueller-Hermelink, H. K. [Reprint author]
 CORPORATE SOURCE: Pathology, University Wuerzburg, Wuerzburg, Germany
 SOURCE: European Journal of Cancer, (October, 2001) Vol. 37, No. Supplement 6, pp. S225. print. Meeting Info.: 11th European Cancer Conference. Lisbon, Portugal. October 21-25, 2001. CODEN: EJCAEL. ISSN: 0959-8049.
 DOCUMENT TYPE: Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 Conference; (Meeting Poster)
 LANGUAGE: English
 ENTRY DATE: Entered STN: 15 May 2002
 Last Updated on STN: 15 May 2002
 ED Entered STN: 15 May 2002
 Last Updated on STN: 15 May 2002

L81 ANSWER 14 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER: 2000:521286 BIOSIS Full-text
 DOCUMENT NUMBER: PREV200000521286
 TITLE: Immunotherapy for stomach carcinoma with the human monoclonal antibody SC-1 and the new DAF apoptosis pathway.
 AUTHOR(S): Vollmers, H. P. [Reprint author]; Hensel, F. [Reprint author]; Krenn, V. [Reprint author]; Timmermann, W.; Illert, B.; Thiede, A.; Mueller-Hermelink, H. K. [Reprint author]
 CORPORATE SOURCE: Inst. f. Pathologie, Universitaet Wuerzburg, Wuerzburg,

Germany

SOURCE: International Journal of Molecular Medicine, (2000) Vol. 6, No. Supplement 1, pp. S14. print.
Meeting Info.: Joint Meeting of the 5th World Congress on Advances in Oncology and the 3rd International Symposium on Molecular Medicine. Crete, Greece. October 19-21, 2000.
ISSN: 1107-3756.

DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 29 Nov 2000
Last Updated on STN: 11 Jan 2002

ED Entered STN: 29 Nov 2000
Last Updated on STN: 11 Jan 2002

L81 ANSWER 15 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER: 1999:287837 BIOSIS Full-text

DOCUMENT NUMBER: PREV199900287837

TITLE: DAF/CD55, a new apoptosis surface receptor on stomach cancer cells defined by the human monoclonal antibody SC-1.

AUTHOR(S): Hermann, R. [Reprint author]; Hensel, F. [Reprint author]; Franke, A. [Reprint author]; Krenn, V. [Reprint author]; Geis, S. [Reprint author]; Abe, N. [Reprint author]; Mueller-Hermelink, H. K. [Reprint author]; Vollmers, H. P.

CORPORATE SOURCE: Inst. f. Pathologie, Universitaet Wuerzburg, Josef-Schneider-Str.2, 97080, Wuerzburg, Germany

SOURCE: European Journal of Cell Biology, (1999) Vol. 78, No. SUPPL. 49, pp. 25. print.
Meeting Info.: 23rd Annual Meeting of the German Society for Cell Biology. Rostock, Germany. March 14-18, 1999.
German Society for Cell Biology.
CODEN: EJCBDN. ISSN: 0171-9335.

DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 5 Aug 1999
Last Updated on STN: 5 Aug 1999

ED Entered STN: 5 Aug 1999
Last Updated on STN: 5 Aug 1999

L81 ANSWER 16 OF 22 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2005-16790 BIOTECHDS Full-text

TITLE: Novel purified SAM-6 antibodies capable of specifically binding to neoplastic cells, useful for diagnosing and treating proliferative diseases;
human antibody production against neoplastic cell via cell culture for use in disease therapy and diagnosis

AUTHOR: VOLLMERS H; MUELLER-HERMELINK H K

PATENT ASSIGNEE: VOLLMERS H; MUELLER-HERMELINK H K

PATENT INFO: EP 1531162 18 May 2005

APPLICATION INFO: EP 2003-26161 14 Nov 2003

PRIORITY INFO: EP 2003-26161 14 Nov 2003; EP 2003-26161 14 Nov 2003

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2005-357969 [37]

AN 2005-16790 BIOTECHDS Full-text

AB DERWENT ABSTRACT:

NOVELTY - A purified polypeptide (I) binding to neoplastic cells, having a sequence identical to a fully defined 96 amino acid (SEQ ID Number 1) and/or 110 amino acid (SEQ ID Number 3) sequence given in the specification, and specifically binding to BXP-3 (ATCC Accession Number CRL-1687), 23132/87 (DSMZ Accession Number ACC 201), COLO-206F (DSMZ Accession Number ACC 21), COLO-699 (DSMZ Accession Number ACC 196) and LOU-NH91 (DSMZ Accession Number ACC 393) cells, is new.

DETAILED DESCRIPTION - A purified polypeptide (I) that binds to neoplastic cells, having an amino acid sequence substantially identical to a fully defined 96 amino acid (SEQ ID Number 1) and/or 110 amino acid (SEQ ID Number 3) sequence given in the specification, where (I) specifically binds to BXP-3 (ATCC Accession Number CRL-1687), 23132 /87 (DSMZ Accession Number ACC 201), COLO-206F (DSMZ Accession Number ACC 21), COLO-699 (DSMZ Accession Number ACC 196), and LOU-NH91 (DSMZ Accession Number ACC 393) cells and not to non-neoplastic cells, where the neoplastic cell is a adenocarcinoma of the lung, squamous cell lung carcinoma, intestinal type gastric carcinoma, diffuse type gastric carcinoma, adenocarcinoma of the colon, adenocarcinoma of the prostate, squamous cell carcinoma of the esophagus, adenocarcinoma of the esophagus, adenocarcinoma of the esophagus lobular carcinoma of the breast, ductal carcinoma of the breast, adenocarcinoma of the pancreas, adenocarcinoma of the ovary and adenocarcinoma of the uterus cell, where (I) is expressed by the hybridoma cell line, which was deposited at the DSMZ (Deutsche Sammlung von Mikrorganismen and Zellkulturen GmbH in Braunschweig Germany) as SAM-6 on the 7th of November 2003. **INDEPENDENT CLAIMS** are also included for the following: (1) a complementarity-determining region (CDR) or its functional fragment comprising the amino acid sequence substantially identical to the amino acid sequence Ser-Gly-Asp-Lys-Leu-Gly-Asp-Lys-Tyr-Ala-Cys (CDR1) or Gln-Asp-Ser-Lys-Arg-Pro-Ser (CDR2) Or Gln-Ala-Trp-Asp-Ser-Ser-Ile-Val-Val (CDR3) of SEQ ID Number 1 and/or Ser-Tyr-Ala-Met-His (CDR1) or Val-Ile-Ser-Tyr-Asp-Gly-Ser-Asn-Lys-Tyr-Tyr- Ala-Asp-Ser-Val-Lys-Gly (CDR2) or Asp-Arg-Leu-Ala-Gly-Lys-Thr-Phe-Asp-Tyr of SEQ ID Number 3; (2) a cell (II) that expressing (I), or a polypeptide having a sequence that is substantially identical to the amino acid sequence of SEQ ID Number 1 and/or SEQ ID Number 3; (3) a hybridoma cell line, which was deposited at the DSMZ; (4) generating (II), involves contacting lymphocytes with a heteromyeloma cell line under conditions that result in the fusion of a lymphocyte with a heteromyeloma cell, the fusion resulting in a hybridoma, determining whether the hybridoma produces a polypeptide that inhibits proliferation in a neoplastic cell to which it binds, but does not inhibit proliferation in a non-neoplastic cell, or determining whether the hybridoma produces a polypeptide that induces intracellular accumulation of lipids in a neoplastic cell to which it binds, but does not induce intracellular accumulation of lipids in a non-neoplastic cell, or determining whether the hybridoma produces a polypeptide that induces apoptosis of a neoplastic cell to which it binds, but does not induce apoptosis of a non-neoplastic cell, and determining whether the hybridoma produces a polypeptide that specifically binds to BXP-2 (ATCC Accession number CRL-1687), 23132/87 (DSMZ Accession number ACC 201), COLO-206F (DSMZ Accession number ACC 21), COLO-699 (DSMZ Accession number ACC 196), and LOU-NH91 (DSMZ Accession number ACC 393) cells and not to non-neoplastic cells; (5) a diagnostic agent comprising (I); (6) an isolated nucleic acid molecule (III) comprising a fully defined 288 nucleotide (SEQ ID Number 2) or 330 nucleotide (SEQ ID Number 4) sequence given in the specification; (7) a vector (IV) comprising (III); and (8) a cell comprising (IV). **BIOTECHNOLOGY - Preferred Polypeptide:** (I) inhibits cell proliferation when bound to a neoplastic cell, but does not inhibit cell proliferation of a non-neoplastic cell. (I) induces the intracellular accumulation of lipids when bound to a neoplastic cell, but does not induce the intracellular accumulation of lipids in a non-neoplastic cell. (I) induces apoptosis of a neoplastic cell to which it binds, but does not induce apoptosis of a non-neoplastic cell. (I) comprises an antibody or its

functional fragment, which is chosen from VL, VH, FV, FC, Fab, Fab' and F(ab')₂. (I) has an amino acid sequence of the variable region of the light chain (VL) substantially identical to SEQ ID Number 1 or SEQ ID Number 2, and/or an amino acid sequence of the variable region of the heavy chain (VH) substantially identical to SEQ ID Number 3 or SEQ ID Number 4. The functional fragment comprises a fragment of the sequence of SEQ ID Number 1 and SEQ ID Number 3. The functional fragment comprises a fragment that is substantially identical to the sequence SEQ ID Number 1 and/or SEQ ID Number 3. (I) comprises nucleic acid sequences that are substantially identical to nucleotides 67-99 (CDR1), 145-165 (CDR2) and 262-288 (CDR3) of SEQ ID Number 2. (I) comprises nucleic acid sequences that are substantially identical to nucleotides 91-105 (CDR1), 148-198 (CDR2) and 295-330 (CDR3) of SEQ ID Number 4. (I) is a monoclonal antibody, preferably a human monoclonal antibody.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Inducer of apoptosis; Inhibitor of cell proliferation; Inducer of intracellular accumulation of lipids (claimed). Cell death detection enzyme linked immunosorbent assay (ELISA) was performed using 1x10⁴ tumor cells (BXPC-3, 23132/87, RPMI-2650 and HNEpC-c) incubated with SAM-6 antibodies and control antibodies. The level of the antibody-induced apoptosis was calculated based on the color intensity. The results show that SAM-6 induced apoptosis in carcinoma cells after 48 hours of incubation.

USE - (I) is useful for diagnosing a neoplasm in a mammal, which involves contacting a cell or tissue of the mammal with (I), and detecting whether the purified polypeptide binds to the cell or tissue sample, where binding of (I) to the cell or tissue sample is indicative of the mammal having a neoplasm. The mammal is human. The neoplasm is a adenocarcinoma of the lung, squamous cell lung carcinoma, intestinal type gastric carcinoma, diffuse type gastric carcinoma, adenocarcinoma of the colon, adenocarcinoma of the prostate, squamous cell carcinoma of the esophagus, adenocarcinoma of the esophagus, adenocarcinoma of the esophagus lobular carcinoma of the breast, ductal carcinoma of the breast, adenocarcinoma of the pancreas, adenocarcinoma of the ovary and adenocarcinoma of the uterus cell. (I) is an antibody conjugated to a detectable agent chosen from radionuclide, fluorescent marker, enzyme, cytotoxin, cytokine and growth inhibitor. (I) is conjugated to a protein purification tag, which is cleavable. (I) is also useful for treating the proliferative disorder in a mammal, which involves contacting a cell or tissue sample with (I), where binding of (I) to the cell or tissue sample results in a reduction in proliferation, intracellular accumulation of lipids, and induction of apoptosis of the cell or of a cell in the tissue sample, where (I) is conjugated to the detectable agent, which is capable of inhibiting cell proliferation of the cell or tissue sample. (I) along with carrier is useful for the production of medicament that inhibits cell proliferation, induces the intracellular accumulation of lipids or that induces apoptosis (claimed). ADMINISTRATION - (I) is administered by intramuscular, intravenous, intraperitoneal, intravesicular, intraarticular, intralesional, or subcutaneous route at dosage of 0.1-50 mg/kg body weight. EXAMPLE - No relevant example is given. (47 pages)

L81 ANSWER 17 OF 22 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2006397391 EMBASE Full-text

TITLE: Natural IgM antibodies: The orphaned molecules in immune surveillance.

AUTHOR: Vollmers H.P.; Brandlein S.

CORPORATE SOURCE: H.P. Vollmers, Institute for Pathology, University Wurzburg, Josef-Schneider-Str. 2, D-97080 Wurzburg, Germany. peter.vollmers@mail.uni-wuerzburg.de

SOURCE: Advanced Drug Delivery Reviews, (7 Aug 2006) Vol. 58, No. 5-6, pp. 755-765. .

Refs: 98
 ISSN: 0169-409X CODEN: ADDREP
 PUBLISHER IDENT.: S 0169-409X(06)00093-7
 COUNTRY: Netherlands
 DOCUMENT TYPE: Journal; General Review
 FILE SEGMENT: 016 Cancer
 026 Immunology, Serology and Transplantation
 037 Drug Literature Index
 039 Pharmacy
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ENTRY DATE: Entered STN: 1 Sep 2006
 Last Updated on STN: 1 Sep 2006
 ED Entered STN: 1 Sep 2006
 Last Updated on STN: 1 Sep 2006
 AB Natural IgM antibodies are typical victims of prejudices which originated in the mid 80 s. Over the years, these molecules were considered as the pariahs among the immune competent molecules and their characteristic properties, like low affinity, cross-reactivity and pentameric structure, were assessed as useless, difficult, nebulous, etc. Today, mainly based on a few scientists' persistent work and the key discoveries on innate immune recognition, natural IgM antibodies are "back on stage". Their role in the immune response against bacteria, viruses, fungi and possibly modified self-components as well as in therapy and diagnosis of malignancies is accepted. All the so far negatively judged features are seen in a different light, e.g. low affinity seems to be good for function and does not exclude specificity, and cross-reactivity is no longer judged as unspecific, but instead as a very economic way of immune recognition. And at last, with the use of natural IgM antibodies, a new field of tumor-specific targets has been encountered, the carbo-neo-epitopes. Therefore, by having learned from nature, the renaissance of natural IgM antibodies opens a new area of cancer therapeutics and diagnostics. .COPYRGT. 2006 Elsevier B.V. All rights reserved.

L81 ANSWER 18 OF 22 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN
 ACCESSION NUMBER: 2005300597 EMBASE Full-text
 TITLE: The "early birds": Natural IgM antibodies and immune surveillance.
 AUTHOR: Vollmers H.P.; Brandlein S.
 CORPORATE SOURCE: Dr. H.P. Vollmers, Institute of Pathology, University of Wurzburg, Josef-Schneider-Str. 2, D-97080 Wurzburg, Germany. peter.vollmers@mail.uni-wuerzburg.de
 SOURCE: Histology and Histopathology, (2005) Vol. 20, No. 3, pp. 927-937. .
 Refs: 71
 ISSN: 0213-3911 CODEN: HIIHIES
 COUNTRY: Spain
 DOCUMENT TYPE: Journal; General Review
 FILE SEGMENT: 016 Cancer
 022 Human Genetics
 026 Immunology, Serology and Transplantation
 029 Clinical Biochemistry
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ENTRY DATE: Entered STN: 21 Jul 2005
 Last Updated on STN: 21 Jul 2005
 ED Entered STN: 21 Jul 2005
 Last Updated on STN: 21 Jul 2005

AP- Precancerous epithelial lesions are sites of uncontrolled cellular proliferation generated by irreversible genetic alterations. Not all of those lesions progress to invasive cancer, some may even regress, but the early detection of abnormal cells can be crucial for patient survival. Immune surveillance mechanisms are responsible for the removal of transformed cells and antibodies play an important role in these immune processes. In the past, analysis of the immunoglobuline repertoire has focused mainly on xenoimmunizations or the investigation of cancer patient immunity. The human hybridoma technology (Trioma technique) offers the unique possibility to study the humoral immunity of healthy people. Using this technique a series of tumor-binding antibodies could be isolated which all have several features in common: they are germ-line coded IgM antibodies, they predominantly bind to carbohydrates on post-transcriptionally modified antigens, they induce apoptosis and, most importantly, they detect not only malignant cells but also precursor stages. These data demonstrate that the body has a comprehensive defense system against malignant cells based on the production of natural antibodies.

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ACCESSION NUMBER: 2005191155 EMBASE Full-text
 TITLE: Death by stress: Natural IgM-induced apoptosis.
 AUTHOR: Vollmers H.P.; Brandlein S.
 CORPORATE SOURCE: Dr. H.P. Vollmers, Institut fur Pathologie, Universitat Wurzburg, Josef-Schneider Str. 2, D-97080 Wurzburg, Germany. peter.vollmers@mail.uni-wuerzburg.de
 SOURCE: Methods and Findings in Experimental and Clinical Pharmacology, (2005) Vol. 27, No. 3, pp. 185-191. .
 Refs: 77
 ISSN: 0379-0355 CODEN: MFEPDX
 COUNTRY: Spain
 DOCUMENT TYPE: Journal; General Review
 FILE SEGMENT: 016 Cancer
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ENTRY DATE: Entered STN: 26 May 2005
 Last Updated on STN: 26 May 2005

ED Entered STN: 26 May 2005

Last Updated on STN: 26 May 2005

AB Stress kills and hence should be avoided. On the other hand, stress induction can be used to remove malignant cells by inducing cellular suicide. Natural IgM antibodies act as first-line defense in immune surveillance. These antibodies selectively kill aberrant cells by using different apoptotic stress mechanisms. They can be isolated from patients but also from healthy donors by using the human hybridoma technology. They are components of the innate immunity, and, on the basis of specific screening methods, should also be detectable in any other individual. The three tumor-specific, apoptosis-inducing natural IgM antibodies described in this review are good examples for stress-induced apoptosis and nature's resourceful ways to fight malignant growth. .COPYRGT. 2005 Prous Science. All rights reserved.

L81 ANSWER 20 OF 22 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 97252306 EMBASE Full-text
 DOCUMENT NUMBER: 1997252306
 TITLE: Immunopathological observations after xenogeneic liver perfusions using donor pigs transgenic for human decay-accelerating factor.

AUTHOR: Pascher A.; Poehlein C.; Storck M.; Prestel R.;
 Mueller-Hoecker J.; White D.J.G.; Abendroth D.;
 Hammer C.
 CORPORATE SOURCE: Prof. C. Hammer, Institute for Surgical Research, Klinikum
 Grosshadern, LMU Munich, Marchioninstr. 15, 81366 Munich,
 Germany
 SOURCE: Transplantation, (1997) Vol. 64, No. 3, pp. 384-391.
 Refs: 23
 ISSN: 0041-1337 CODEN: TRPLAU
 COUNTRY: United States
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: 005 General Pathology and Pathological Anatomy
 009 Surgery
 048 Gastroenterology
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ENTRY DATE: Entered STN: 4 Sep 1997
 Last Updated on STN: 4 Sep 1997

ED Entered STN: 4 Sep 1997

Last Updated on STN: 4 Sep 1997

AB Background. Donor pigs transgenic for human decay-accelerating factor (hDAF) were used in a xenogeneic ex vivo liver perfusion model to study the effect of this modification on the development of hyperacute rejection. Methods. Three transgenic pigs were hepatectomized after hypothermic portal and transaortal gravity perfusion. Livers from six nontransgenic pigs served as controls. All livers were perfused for 3 hr with human blood from two donors diluted to a hematocrit of 30%. Particular importance was placed on the use of an optimal perfusion technique incorporating the floating suspension of the organs in a waterbath and intermittent external pressurization. Biochemical, physiological, and immunological parameters were assessed. Tissue specimens taken before and after perfusion were analyzed using routine histology, electron microscopy, and immunohistology. Results. Complement activation was more pronounced in the control group. AP50 and CH50 values fell to about 60% of the initial levels in control experiments, whereas they remained at 80% of the initial levels during perfusion of hDAF livers. After 180 min, pig tumor necrosis factor α levels were 7862 ± 1645 pg/ml for unmodified livers and 2830 ± 734 pg/ml in the hDAF group. Human tumor necrosis factor α levels were similar in both groups. Control livers showed marked morphological alterations and distinct deposition of complement factors, whereas livers expressing hDAF showed no signs of hepatocellular necrosis and almost no complement deposition beyond C3 activation. Conclusions. These results confirm that the transgenic expression of the human complement regulatory protein hDAF reduces complement activation and prevents hyperacute rejection in a xenogeneic liver perfusion model over the 3-hr evaluation period used in this study.

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ACCESSION NUMBER: 96138210 EMBASE Full-text

DOCUMENT NUMBER: 1996138210

TITLE: Human decay accelerating factor expressed on endothelial cells of transgenic pigs affects complement activation in an ex vivo liver perfusion model.

AUTHOR: Pascher A.; Poehlein C.; Storck M.; Abendroth D.;
 Mueller-Hoecker J.; Young V.K.; Koenig W.; White
 D.J.G.; Hammer C.

CORPORATE SOURCE: Klinikum Grosshadern, Institute for Surgical Research,
 Marchioninstr 15, 81366 Muenchen, Germany

SOURCE: Transplantation Proceedings, (1996) Vol. 28, No. 2, pp.
 754-755.

ISSN: 0041-1345 CODEN: TRPPA8
 COUNTRY: United States
 DOCUMENT TYPE: Journal; Conference Article
 FILE SEGMENT: 026 Immunology, Serology and Transplantation
 048 Gastroenterology
 LANGUAGE: English
 ENTRY DATE: Entered STN: 29 May 1996
 Last Updated on STN: 29 May 1996
 ED Entered STN: 29 May 1996
 Last Updated on STN: 29 May 1996
 DATA NOT AVAILABLE FOR THIS ACCESSION NUMBER

L81 ANSWER 22 OF 22 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 96351176 EMBASE Full-text
 DOCUMENT NUMBER: 1996351176
 TITLE: Expression of human decay accelerating factor (hDAF) in transgenic pigs regulates complement activation during ex vivo liver perfusion - Immunopathological findings.
 AUTHOR: Pascher A.; Poehlein Ch.; Storck M.; Abendroth D.; Mueller-Hoecker J.; Koenig W.; Young V.K.; White D.J.G.; Hammer C.
 CORPORATE SOURCE: Institute for Surgical Research, Klinikum Grosshadern, LMU Munich, Marchioninistrasse 15, D-81366 Munich, Germany
 SOURCE: Transplant International, (1996) Vol. 9, No. SUPPL. 1, pp. S385-S387. .
 ISSN: 0934-0874 CODEN: TRINE5
 COUNTRY: Germany
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: 009 Surgery
 026 Immunology, Serology and Transplantation
 048 Gastroenterology
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ENTRY DATE: Entered STN: 10 Dec 1996
 Last Updated on STN: 10 Dec 1996

ED Entered STN: 10 Dec 1996

Last Updated on STN: 10 Dec 1996

AB Ex vivo perfusions of human decay accelerating factor-expressing transgenic (n = 3), and nontransgenic (n = 6) porcine livers with human blood revealed a higher degree of organ damage in nontransgenic pig livers. Transgenic livers were protected from immunohistologically detectable complement deposition, despite corresponding IgM and IgG deposits in both groups. Complement activation and consumption of C3 and C4 turned out to be lower in transgenic pig livers. In contrast to livers of normal landrace pigs, livers from genetically manipulated pigs showed no morphological alterations after perfusion.

TEXT SEARCH

=>

=> => fil medl; d que l32; d que l35; d que l33
 FILE 'MEDLINE' ENTERED AT 17:01:51 ON 17 JAN 2007

FILE LAST UPDATED: 16 Jan 2007 (20070116/UP). FILE COVERS 1950 TO DATE.

All regular MEDLINE updates from November 15 to December 16 have been added to MEDLINE, along with 2007 Medical Subject Headings (MeSH(R)) and 2007 tree numbers.

The annual reload will be available in early 2007.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L26 1166 SEA FILE=MEDLINE ABB=ON ANTIGENS, CD55/CT
 L29 24 SEA FILE=MEDLINE ABB=ON 23132
 L32 0 SEA FILE=MEDLINE ABB=ON L26 AND L29

L26 1166 SEA FILE=MEDLINE ABB=ON ANTIGENS, CD55/CT
 L27 53324 SEA FILE=MEDLINE ABB=ON GLYCOPROTEINS/CT
 L28 203676 SEA FILE=MEDLINE ABB=ON ADENOCARCINOMA+NT/CT
 L35 0 SEA FILE=MEDLINE ABB=ON L26 AND L28 AND L27

L26 1166 SEA FILE=MEDLINE ABB=ON ANTIGENS, CD55/CT
 L28 203676 SEA FILE=MEDLINE ABB=ON ADENOCARCINOMA+NT/CT
 L30 393194 SEA FILE=MEDLINE ABB=ON CELL LINE+NT/CT
 L33 5 SEA FILE=MEDLINE ABB=ON L26 AND L28 AND L30

=> s l33 not l25

L82 5 L33 NOT L25

=> fil embase; d que l47; d que l49; d que l55

FILE 'EMBASE' ENTERED AT 17:01:52 ON 17 JAN 2007
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FILE COVERS 1974 TO 17 Jan 2007 (20070117/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

L39 1317 SEA FILE=EMBASE ABB=ON DECAY ACCELERATING FACTOR/CT
 L41 16843 SEA FILE=EMBASE ABB=ON ADENOCARCINOMA/CT
 L47 3 SEA FILE=EMBASE ABB=ON L39 AND L41

L39 1317 SEA FILE=EMBASE ABB=ON DECAY ACCELERATING FACTOR/CT
 L42 42527 SEA FILE=EMBASE ABB=ON CELL LINE/CT
 L43 9850 SEA FILE=EMBASE ABB=ON TUMOR CELL LINE/CT
 L45 27881 SEA FILE=EMBASE ABB=ON GLYCOPROTEIN/CT
 L49 0 SEA FILE=EMBASE ABB=ON L39 AND (L42 OR L43) AND L45

L39 1317 SEA FILE=EMBASE ABB=ON DECAY ACCELERATING FACTOR/CT
 L40 5 SEA FILE=EMBASE ABB=ON 23132?
 L55 0 SEA FILE=EMBASE ABB=ON L39 AND L40

=> s l47 not l46

L83 3 L47 NOT L46

=> fil wpix; d que l60; d que l61; d que l66

FILE 'WPIX' ENTERED AT 17:01:54 ON 17 JAN 2007
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 MOST RECENT THOMSON SCIENTIFIC UPDATE: 200704 <200704/DW>
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 EPI, please go to:
<http://scientific.thomson.com/dwpi-manualcoderevision> <<<
 'BI ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

L52 119 SEA FILE=WPIX ABB=ON CD55/BI,ABEX OR CD 55/BI,ABEX OR DECAY
 ACCELERATING FACTOR/BI,ABEX
 L58 3007 SEA FILE=WPIX ABB=ON ADENOCARCINOMA#/BI,ABEX OR ADENO/BI,ABEX (

ad... activity add A) CARCINOMA#/BI, ABEX
L60 4 SEA FILE=WPIX ABB=ON L52 AND L58

L52 119 SEA FILE=WPIX ABB=ON CD55/BI, ABEX OR CD 55/BI, ABEX OR DECAY
ACCELERATING FACTOR/BI, ABEX

L59 5 SEA FILE=WPIX ABB=ON 23132?/BI, ABEX

L61 1 SEA FILE=WPIX ABB=ON L52 AND L59

L52 119 SEA FILE=WPIX ABB=ON CD55/BI, ABEX OR CD 55/BI, ABEX OR DECAY
ACCELERATING FACTOR/BI, ABEX

L56 3675 SEA FILE=WPIX ABB=ON B04-N06/MC OR C04-N06/MC = Glyco proteins

L57 6999 SEA FILE=WPIX ABB=ON GLYCOPROTEIN#/BI, ABEX OR GLYCO PROTEIN#/B
I, ABEX

L62 20 SEA FILE=WPIX ABB=ON L52 AND (L56 OR L57)

L63 220303 SEA FILE=WPIX ABB=ON MW/BI, ABEX OR MOL?/BI, ABEX (W) WEIGHT/BI, AB
EX OR KDA/BI, ABEX OR DALTON#/BI, ABEX OR KILODALTON#/BI, ABEX OR
KD/BI, ABEX

L65 132265 SEA FILE=WPIX ABB=ON 82/BI, ABEX OR 82000/BI, ABEX

L66 2 SEA FILE=WPIX ABB=ON (L65 OR L63) AND L62

=> s 160,161,166 not 153

L84 4 (L60 OR L61 OR L66) NOT L53

=> fil capl; d que 110; d que 117; d que 122; d que 18

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FILE COVERS 1907 - 17 Jan 2007 VOL 146 ISS 4

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L4 362 SEA FILE=CAPLUS ABB=ON CD55/OBI OR CD 55/OBI

L6 21213 SEA FILE=CAPLUS ABB=ON CARCINOMA#/OBI (L) ADENO/OBI OR ADENOCARC
INOMA#/OBI

L10

6 SEA FILE=CAPLUS ABB=ON L4 AND L6

L6 21213 SEA FILE=CAPLUS ABB=ON CARCINOMA#/OBI (L) ADENO/OBI OR ADENOCARC
INOMA#/OBI
L11 1 SEA FILE=REGISTRY ABB=ON 99085-47-9
L12 967 SEA FILE=CAPLUS ABB=ON DECAY-ACCELERATING FACTOR/OBI
L13 1086 SEA FILE=CAPLUS ABB=ON L11
L17 8 SEA FILE=CAPLUS ABB=ON L6 (L) (L12 OR L13)

L6 21213 SEA FILE=CAPLUS ABB=ON CARCINOMA#/OBI (L) ADENO/OBI OR ADENOCARC
INOMA#/OBI
L11 1 SEA FILE=REGISTRY ABB=ON 99085-47-9
L12 967 SEA FILE=CAPLUS ABB=ON DECAY-ACCELERATING FACTOR/OBI
L13 1086 SEA FILE=CAPLUS ABB=ON L11
L20 114772 SEA FILE=CAPLUS ABB=ON GLYCOPROTEIN#/OBI
L21 177 SEA FILE=CAPLUS ABB=ON PROTEIN#/OBI (L) GLYCO/OBI
L22 6 SEA FILE=CAPLUS ABB=ON L6 AND (L20 OR L21) AND (L12 OR L13)

L4 362 SEA FILE=CAPLUS ABB=ON CD55/OBI OR CD 55/OBI
L7 4 SEA FILE=CAPLUS ABB=ON 23132/OBI
L8 0 SEA FILE=CAPLUS ABB=ON L4 AND L7

=> s l10,l17,l22 not l80

L85 14 (L10 OR L17 OR L22) NOT L80

=> fil jic pascal biotechno biosis esbio biotechds lifesci confsci dissabs bioeng
scisearch

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=> d que 177; d que 179; s 177,179 not 176

L69 7655 SEA CD55 OR CD 55 OR DECAY ACCELERATING FACTOR
 L71 51 SEA 23132?
 L77 1 SEA L69 AND L71

L69 7655 SEA CD55 OR CD 55 OR DECAY ACCELERATING FACTOR
 L70 546531 SEA GLYCOPROTEIN# OR GLYCO PROTEIN#
 L72 225456 SEA ADENOCARCINOMA# OR ADENO(A) CARCINOMA#
 L73 1412828 SEA MW OR MOL?(W) WEIGHT OR KDA OR DALTON# OR KILODALTON# OR
 KD OR 82 OR 82000
 L78 103 SEA L69 AND L72
 L79 18 SEA L78 AND (L70 OR L73)

L86 15 (L77 OR L79) NOT L76

=> => dup rem 182,185,184,183,186

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PROCESSING COMPLETED FOR L82

PROCESSING COMPLETED FOR L85

PROCESSING COMPLETED FOR L84

PROCESSING COMPLETED FOR L83

PROCESSING COMPLETED FOR L86

L87 28 DUP REM L82 L85 L84 L83 L86 (13 DUPLICATES REMOVED)

ANSWERS '1-5' FROM FILE MEDLINE

ANSWERS '6-18' FROM FILE CAPLUS

ANSWERS '19-20' FROM FILE WPIX

ANSWERS '21-22' FROM FILE EMBASE

ANSWER '23' FROM FILE JICST-EPLUS

ANSWER '24' FROM FILE PASCAL

ANSWER '25' FROM FILE BIOSIS

ANSWERS '26-28' FROM FILE SCISEARCH

=> diall 1-5; d ibib ed abs hitind 6-18; d iall abeq tech 19-20; d iall 21-28; fil
 hom

L87 ANSWER 1 OF 28 MEDLINE on STN DUPLICATE 3
 ACCESSION NUMBER: 2001653278 MEDLINE Full-text
 DOCUMENT NUMBER: PubMed ID: 11706063
 TITLE: Regulation of the new coexpressed CD55 (decay-accelerating
 factor) receptor on stomach carcinoma cells involved in
 antibody SC-1-induced apoptosis.
 AUTHOR: Hensel F; Hermann R; Brandlein S; Krenn V; Schmausser B;
 Geis S; Muller-Hermelink H K; Vollmers H P
 CORPORATE SOURCE: Institute for PathologyUniversity of Wurzburg, Wurzburg,
 Germany.
 SOURCE: Laboratory investigation; a journal of technical methods
 and pathology, (2001 Nov) Vol. 81, No. 11, pp. 1553-63.
 Journal code: 0376617. ISSN: 0023-6837.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200112
 ENTRY DATE: Entered STN: 14 Nov 2001
 Last Updated on STN: 23 Jan 2002
 Entered Medline: 7 Dec 2001

ABSTRACT:

The human monoclonal antibody SC-1 was isolated from a patient with a
 diffuse-type adenocarcinoma of the stomach using somatic cell hybridization.
 The immunoglobulin (Ig)M antibody reacts specifically with diffuse- (70%) and
 intestinal-type (25%) gastric adenocarcinoma and induces apoptosis in vitro and
 in vivo. When used in clinical trials with stomach carcinoma patients,
 significant apoptotic and regressive effects in primary tumors have been
 observed with the antibody SC-1. The SC-1 receptor is a new 82 kd
 membrane-bound isoform of glycosylphosphatidylinositol (GPI)-linked CD55
 (decay-accelerating factor, DAF). CD55 is known to protect cells from lysis
 through autologous complement and is coexpressed with the ubiquitously
 distributed 70 kd isoform. The SC-1-specific CD55 isoform is up-regulated
 shortly after antibody binding, followed by an internalization of the
 antibody/receptor-complex, whereas the membranous expression of wild-type CD55
 remains unchanged. The apoptotic process is marked by cleavage of cytokeratin

18, indicating the involvement of caspase-6 in the apoptotic process. In contrast to other apoptotic pathways, cleavage of poly(ADP-ribose) polymerase (PARP) is not observed. The expression of the cell-cycle regulator c-myc becomes up-regulated, whereas expression of topoisomerase IIalpha is down-regulated. Induction of apoptosis leads to an increase in the internal Ca(2+) concentration, which is not necessary for the apoptotic process but for the transport of newly synthesized SC-1-specific CD55 isoform to the membrane.

CONTROLLED TERM: *Adenocarcinoma

*Antibodies, Monoclonal: PK, pharmacokinetics

Antigens, CD55: AN, analysis

*Antigens, CD55: BI, biosynthesis

Antigens, CD55: IM, immunology

*Antineoplastic Agents: PK, pharmacokinetics

*Apoptosis: IM, immunology

Calcium: ME, metabolism

Caspases: AI, antagonists & inhibitors

Cell Membrane: PH, physiology

Cytoplasm: PH, physiology

Flow Cytometry

Hela Cells

Humans

Keratin: ME, metabolism

Poly(ADP-ribose) Polymerases: ME, metabolism

Research Support, Non-U.S. Gov't

*Stomach Neoplasms

CAS REGISTRY NO.: 68238-35-7 (Keratin); 7440-70-2 (Calcium)

CHEMICAL NAME: 0 (Antibodies, Monoclonal); 0 (Antigens, CD55); 0 (Antineoplastic Agents); 0 (SC-1 monoclonal antibody); EC 2.4.2.30 (Poly(ADP-ribose) Polymerases); EC 3.4.22.- (Caspases); EC 3.4.22.- (caspase 6); EC 3.4.22.- (caspase-3)

L87 ANSWER 2 OF 28

MEDLINE on STN

DUPLICATE 7

ACCESSION NUMBER: 95357637 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 7543216

TITLE: Augmented lung adenocarcinoma cytotoxicity by the combination of a genetically modified anti-Lewis Y antibody and antibodies to complement regulatory proteins.

AUTHOR: Azuma A; Yamano Y; Yoshimura A; Hibino T; Nishida T; Yagita H; Okumura K; Seya T; Kannagi R; Shibuya M; +

CORPORATE SOURCE: Fourth Department of Internal Medicine, Nippon Medical School, Tokyo, Japan.

SOURCE: Scandinavian journal of immunology, (1995 Aug) Vol. 42, No. 2, pp. 202-8.

Journal code: 0323767. ISSN: 0300-9475.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199509

ENTRY DATE: Entered STN: 21 Sep 1995

Last Updated on STN: 29 Jan 1996

Entered Medline: 7 Sep 1995

ABSTRACT:

Complement-dependent cytotoxicity (CDC) mediated by a chimeric anti-Lewis Y monoclonal antibody (cH18A; human IgG1) was investigated in this study. Human lung adenocarcinoma cell lines (PC7, PC9, and PC14) were used as the target cells. PC7 and PC9 cells, expressed Lewis Y antigen and were lysed by cH18A as effectively as by the parent mouse anti-Lewis Y antibodies (mH18A) in a concentration-dependent manner. PC14 cells did not express Lewis Y antigen and

were not lysed by either cH18A or mH18A. cH18A-mediated CDC activity against PC7 and PC9 cells was enhanced by the combined use of monoclonal antibodies directed against CD46 (MCP), CD55 (DAF), and CD59. These molecules are complement-regulatory proteins which protect host cells from CDC. PC7 and PC9 cells, showed high levels of surface expression of these proteins, PC7 cells were more susceptible to cH18A-mediated CDC than PC9 cells. Use of multiple blocking antibodies to the complement-regulatory proteins produced more enhancement of cH18A-mediated CDC than a single antibody. Moreover, expression of CD55 and CD59 by PC7 and PC9 cells was decreased after treatment with PI-PLC, resulting in increased susceptibility to cH18A-mediated CDC. Although the reason is unknown, PC7 cells became more susceptible to CDC than PC9 cells after PI-PLC treatment even in the absence of cH18A. These data suggest that chimeric monoclonal antibodies can be used to induce CDC against lung adenocarcinoma, and that such CDC is potentiated by a variety of antibodies blocking complement-regulatory proteins on the tumour cell surface.

CONTROLLED TERM: *Adenocarcinoma: IM, immunology

Animals

Antibodies, Monoclonal: IM, immunology

*Antibody-Dependent Cell Cytotoxicity

*Antigens, CD: IM, immunology

Antigens, CD46

Antigens, CD55

Antigens, CD59

Cell Line, Transformed

Humans

*Lewis Blood-Group System: IM, immunology

*Lung Neoplasms: IM, immunology

*Membrane Glycoproteins: IM, immunology

Mice

CHEMICAL NAME: 0 (Antibodies, Monoclonal); 0 (Antigens, CD); 0 (Antigens, CD46); 0 (Antigens, CD55); 0 (Antigens, CD59); 0 (CD46 protein, human); 0 (Lewis Blood-Group System); 0 (Lewis Y antigen); 0 (Mcp protein, mouse); 0 (Membrane Glycoproteins)

L87 ANSWER 3 OF 28

MEDLINE on STN

ACCESSION NUMBER: 2006235254 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 16640659

TITLE: Minimal residual disease in ovarian cancer as a target for complement-mediated mAb immunotherapy.

AUTHOR: Bjorge L; Stoiber H; Dierich M P; Meri S

CORPORATE SOURCE: Department of Obstetrics and Gynecology, Institute of Clinical Medicine, Haukeland University Hospital, Bergen, Norway.. line.bjorge@gades.uib.no

SOURCE: Scandinavian journal of immunology, (2006 May) Vol. 63, No. 5, pp. 355-64.

Journal code: 0323767. ISSN: 0300-9475.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200606

ENTRY DATE: Entered STN: 28 Apr 2006

Last Updated on STN: 10 Jun 2006

Entered Medline: 9 Jun 2006

ABSTRACT:

Ovarian cancer is potentially well suited for local monoclonal antibody (mAb) immunotherapy, because it remains within the peritoneal cavity for a long period of time before giving rise to distant metastases. At the stage of minimal residual disease, the cells appear to be in a state of dormancy (G(0))

or at least have lower rates of tumour cell proliferation. They should be a promising target for immunotherapy. Here we first examined the cell-cycle expression of CD59 and decay-accelerating factor (DAF; CD55) on four different ovarian carcinoma cell lines, using simultaneous flow cytometric analysis of DNA content or the cell-cycle-specific nuclear proliferation protein Ki67 and CD59 or DAF surface expression. We found that CD59 and DAF are stably expressed throughout the cell cycle. The polyvalent approach to target-independent antigens to improve the efficiency of mAb complement (C)-mediated damages was promising, and tumour cells become sensitive to C damage, when incubated with cross-linked mAb against different tumour-associated antigens. Although, such immune complex-mediated C activation was rather ineffective in killing the cells, it could be potentiated by the addition of blocking mAb against CD59 and DAF. Our results suggest that the activities of intrinsic C regulators must be neutralized to make minimal residual disease a promising target for antibody therapy.

CONTROLLED TERM: Check Tags: Female

*Adenocarcinoma: DT, drug therapy

Adenocarcinoma: IM, immunology

*Antibodies, Blocking: TU, therapeutic use

*Antibodies, Monoclonal: TU, therapeutic use

Antigens, CD55: AN, analysis

*Antigens, CD55: DE, drug effects

Antigens, CD55: ME, metabolism

Antigens, Neoplasm: AN, analysis

Cell Cycle

Cell Line, Tumor

*Complement System Proteins: IM, immunology

DNA, Neoplasm: AN, analysis

Flow Cytometry

Humans

Immunotherapy

Ki-67 Antigen: AN, analysis

Ki-67 Antigen: ME, metabolism

Neoplasm, Residual

*Ovarian Neoplasms: DT, drug therapy

Ovarian Neoplasms: IM, immunology

Research Support, Non-U.S. Gov't

CAS REGISTRY NO.: 9007-36-7 (Complement System Proteins)

CHEMICAL NAME: 0 (Antibodies, Blocking); 0 (Antibodies, Monoclonal); 0 (Antigens, CD55); 0 (Antigens, Neoplasm); 0 (DNA, Neoplasm); 0 (Ki-67 Antigen)

L87 ANSWER 4 OF 28

MEDLINE on STN

ACCESSION NUMBER: 2000511822 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 11069077

TITLE: A therapeutic human anti-idiotypic antibody mimics CD55 in three distinct regions.

AUTHOR: Spendlove L; Li L; Potter V; Christiansen D; Loveland B E; Durrant L G

CORPORATE SOURCE: CRC Academic Unit of Clinical Oncology, University of Nottingham, City Hospital, GB..
Ian.Spendlove@Nottingham.ac.uk

SOURCE: European journal of immunology, (2000 Oct) Vol. 30, No. 10, pp. 2944-53.

Journal code: 1273201. ISSN: 0014-2980.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200012

ENTRY DATE: Entered STN: 22-Mar-2001
 Last Updated on STN: 22-Mar-2001
 Entered Medline: 7-Dec-2000

ABSTRACT:

The human anti-idiotypic antibody 105AD7 was isolated from a colorectal cancer patient receiving the anti-tumor antibody 791T/36 for radioimmuno-scintigraphy of liver metastases. We have mapped the binding site of 791T/36 to the first two small consensus repeat (SCR) domains of the complement regulatory protein (CD55) that is overexpressed by a wide range of solid tumors. Cloning of both antigen and anti-idiotypic has identified the molecular basis of their mimicry. Amino acid homology has been identified between three complementarity-determining regions of 105AD7 and three regions of CD55 within the first two SCR domains. 791T/36 and anti-anti-idiotypic (Ab3) polyclonal antibodies raised against 105AD7 showed specific binding to these peptides. The antibodies were also found to bind synergistically to combinations of these peptides, indicating cooperativity between the peptides in stabilizing antibody binding. This also implies that the contact face on both CD55 antigen and 105AD7 is generated by the cooperation of several peptides positioned on two domains in each protein. Thus a human monoclonal anti-idiotypic antibody generated by a cancer patient is able to show both amino acid and structural homology with the complement regulatory protein CD55. These findings help identify the mechanism by which a human anti-idiotypic antibody is able to mimic a tumor-associated antigen and stimulate anti-tumor B and T cell responses.

CONTROLLED TERM: *Adenocarcinoma: IM, immunology
 Adenocarcinoma: RI, radionuclide imaging
 Adenocarcinoma: SC, secondary
 Adenocarcinoma: TH, therapy
 Adjuvants, Immunologic: CH, chemistry
 Adjuvants, Immunologic: TU, therapeutic use
 Amino Acid Sequence
 Animals
 Antibodies, Anti-Idiotypic: CH, chemistry
 Antibodies, Anti-Idiotypic: GE, genetics
 *Antibodies, Anti-Idiotypic: TU, therapeutic use
 Antibodies, Monoclonal: CH, chemistry
 Antibodies, Monoclonal: GE, genetics
 *Antibodies, Monoclonal: IM, immunology
 Antibodies, Neoplasm: BI, biosynthesis
 Antibodies, Neoplasm: DU, diagnostic use
 *Antibodies, Neoplasm: IM, immunology
 Antigen-Antibody Reactions
 Antigens, CD: CH, chemistry
 Antigens, CD46
 *Antigens, CD55: CH, chemistry
 Antigens, CD55: GE, genetics
 Antigens, CD55: IM, immunology
 *Antigens, Neoplasm: CH, chemistry
 Antigens, Neoplasm: GE, genetics
 Antigens, Neoplasm: IM, immunology
 Binding Sites, Antibody
 CHO Cells
 Cloning, Molecular
 *Colorectal Neoplasms: IM, immunology
 Colorectal Neoplasms: TH, therapy
 Cricetinae
 Genes, Immunoglobulin
 Humans
 Immune Sera: IM, immunology
 Immunity, Cellular
 Immunoglobulin Variable Region: GE, genetics

Liver Neoplasms: RI, radionuclide imaging
 Liver Neoplasms: SC, secondary
 Membrane Glycoproteins: CH, chemistry

Mice

Mice, Inbred BALB C

Models, Molecular

Molecular Mimicry

Molecular Sequence Data

Peptide Fragments: CH, chemistry

Protein Conformation

Protein Structure, Tertiary

Radioimmunodetection

Recombinant Fusion Proteins: CH, chemistry

Recombinant Fusion Proteins: IM, immunology

Research Support, Non-U.S. Gov't

Sequence Alignment

Sequence Homology, Amino Acid

Transfection

CHEMICAL NAME: 0 (Adjuvants, Immunologic); 0 (Antibodies, Anti-Idiotypic);
 0 (Antibodies, Monoclonal); 0 (Antibodies, Neoplasm); 0
 (Antigens, CD); 0 (Antigens, CD46); 0 (Antigens, CD55); 0
 (Antigens, Neoplasm); 0 (Binding Sites, Antibody); 0 (CD46
 protein, human); 0 (Immune Sera); 0 (Immunoglobulin
 Variable Region); 0 (Mcp protein, mouse); 0 (Membrane
 Glycoproteins); 0 (Peptide Fragments); 0 (Recombinant
 Fusion Proteins)

L87 ANSWER 5 OF 28

MEDLINE on STN

ACCESSION NUMBER: 92302264 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 1376921

TITLE: Random PCR mutagenesis screening of secreted proteins by
 direct expression in mammalian cells.

AUTHOR: Rice G C; Goeddel D V; Cachianes G; Woronicz J; Chen E Y;
 Williams S R; Leung D W

CORPORATE SOURCE: Department of Cell Biology, Genentech, Inc., South San
 Francisco, CA 94080.

SOURCE: Proceedings of the National Academy of Sciences of the
 United States of America, (1992 Jun 15) Vol. 89, No. 12,
 pp. 5467-71.

Journal code: 7505876. ISSN: 0027-8424.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199207

ENTRY DATE: Entered STN: 31 Jul 1992

Last Updated on STN: 6 Feb 1998

Entered Medline: 21 Jul 1992

ABSTRACT:

We have developed a general method for screening randomly mutagenized
 expression libraries in mammalian cells by using fluorescence-activated cell
 sorting (FACS). The cDNA sequence of a secreted protein is randomly
 mutagenized by PCR under conditions of reduced Taq polymerase fidelity. The
 mutated DNA is inserted into an expression vector encoding the membrane
 glycopospholipid anchor sequence of decay-accelerating factor (DAF) fused to
 the C terminus of the secreted protein. This results in expression of the
 protein on the cell surface in transiently transfected mammalian cells, which
 can then be screened by FACS. This method was used to isolate mutants in the
 kringle 1 (K1) domain of tissue plasminogen activator (t-PA) that would no
 longer be recognized by a specific monoclonal antibody (mAb387) that inhibits

binding of t-PA to its clearance receptor. DNA sequence analysis of the mutants and localization of the mutated residues on a three-dimensional model of the K1 domain identified three key discontinuous amino acid residues that are essential for mAb387 binding. Mutants with changes in any of these three residues were found to have reduced binding to the t-PA receptor on human hepatoma HepG2 cells but to retain full clot lysis activity.

CONTROLLED TERM: Amino Acid Sequence
 Animals
 Antibodies, Monoclonal
 Antigens, CD55
 Blood Proteins: GE, genetics
 Carcinoma, Hepatocellular
 Cell Line
 DNA: GE, genetics
 Epitopes: AN, analysis
 Flow Cytometry
 Gene Library
 Humans
 Liver Neoplasms
 Mammals
 *Membrane Proteins: GE, genetics
 Membrane Proteins: ME, metabolism
 Models, Molecular
 *Mutagenesis, Site-Directed
 *Polymerase Chain Reaction: MT, methods
 Protein Conformation
 Recombinant Fusion Proteins: ME, metabolism
 Restriction Mapping
 *Tissue Plasminogen Activator: GE, genetics
 Tissue Plasminogen Activator: ME, metabolism
 *Transfection
 X-Ray Diffraction

CAS REGISTRY NO.: 9007-49-2 (DNA)
 CHEMICAL NAME: 0 (Antibodies, Monoclonal); 0 (Antigens, CD55); 0 (Blood Proteins); 0 (Epitopes); 0 (Membrane Proteins); 0 (Recombinant Fusion Proteins); EC 3.4.21.68 (Tissue Plasminogen Activator)

L87 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
 ACCESSION NUMBER: 2004:432678 CAPLUS Full-text
 DOCUMENT NUMBER: 141:86434
 TITLE: Decay accelerating factor and colorectal cancer
 AUTHOR(S): Gao, Xue-qin; Lu, Yan-qin; Han, Jin-xiang
 CORPORATE SOURCE: Shangdong Medical & Biotechnology Center, Shandong Academy of Medical Sciences, Jinan, 250062, Peop. Rep. China
 SOURCE: Chinese Journal of Cancer Research (2004), 16(1), 73-77
 CODEN: CJCRFH; ISSN: 1000-9604
 PUBLISHER: Chinese Journal of Cancer Research
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 ED Entered STN: 28 May 2004
 AB A review. To review the significance of decay accelerating factor (DAF) in colorectal cancer, the authors searched the data from PubMed and selected the related articles for review. It was found that DAF were expressed in the adenomas and adenocarcinoma of colorectal tissues. The release of DAF in the

stool of the patients was also detectable and it increased more significantly in the stool of patients with colorectal cancer than other gastrointestinal cancer. Its detection by ELISA method may render a good test for the noninvasive diagnosis of colorectal cancer. It can be concluded that DAF is expressed extensively in colorectal cancer. The detection of DAF released in the stool of colorectal cancer patients may be a good noninvasive method for the diagnosis of colorectal cancer.

CC 14-0 (Mammalian Pathological Biochemistry)

IT Carcinoma

Intestine, neoplasm

(colorectal adenocarcinoma; decay

accelerating factor and colorectal cancer)

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2001:851500 CAPLUS Full-text

DOCUMENT NUMBER: 135:368932

TITLE: Diagnostic method for screening complement regulatory protein levels

INVENTOR(S): Martens, Mark G.; Kaul, Anil K.; Kaul, Rashmi

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001088537	A1	20011122	WO 2001-US14769	20010509
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2003129677	A1	20030710	US 2002-292130	20021112
PRIORITY APPLN. INFO.:			US 2000-203967P	P 20000512
			WO 2001-US14769	A1 20010509

ED Entered STN: 23 Nov 2001

AB The invention provides for a method for the early diagnosis of a premalignant lesion, prognosis of a malignant lesion and a kit for use in more rapid identification of predisposition for malignancy. Endometrial tissue samples from patients with benign endometrium (controls) and patients with biopsy-proven adenocarcinoma of the endometrium were analyzed by immunohistochem. staining and image anal. For all four of the complement regulatory protein levels studied (CD35, CD46, CD55, and CD59), there was a statistically significant difference in quant. protein expression between benign and malignant endometrial samples.

IC ICM G01N033-53

CC 9-10 (Biochemical Methods)

Section cross-reference(s): 14

ST early diagnosis complement regulatory protein premalignant lesion; cancer early diagnosis complement regulatory protein; CD35 CD46 CD55 CD59 endometrium adenocarcinoma

CD antigens

RL: ANT (Analyte); BOC (Biological occurrence); BPR (Biological process);
BSU (Biological study, unclassified); THU (Therapeutic use); ANST
(Analytical study); BIOL (Biological study); OCCU (Occurrence); PROC
(Process); USES (Uses)

(CD55, as complement regulatory protein; diagnostic method
for screening complement regulatory protein levels)

IT Uterus, neoplasm
(endometrium, adenocarcinoma; diagnostic method for screening
complement regulatory protein levels)

IT Tumor necrosis factors
RL: BAC (Biological activity or effector, except adverse); BPR (Biological
process); BSU (Biological study, unclassified); BIOL (Biological study);
PROC (Process)
(modulation of CD55 in MCF-7 breast cancer cells; diagnostic
method for screening complement regulatory protein levels)

IT Mammary gland
(neoplasm, TNF- α modulation of CD55 in estrogen-primed
MCF-7 cells; diagnostic method for screening complement regulatory
protein levels)

IT 50-28-2, β -Estradiol, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(TNF- α modulation of CD55 in MCF-7 breast cancer cells
primed with; diagnostic method for screening complement regulatory
protein levels)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4

ACCESSION NUMBER: 2000:628180 CAPLUS Full-text

DOCUMENT NUMBER: 133:221600

TITLE: Antibodies for cancer therapy and diagnosis

INVENTOR(S): Carter, Paul J.; Ridgway, John B.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052054	A2	20000908	WO 2000-US5352	20000229
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW:				
GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361877	A1	20000908	CA 2000-2361877	20000229
EP 1157041	A2	20011128	EP 2000-912115	20000229
EP 1157041	B1	20050601		
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO				
JP 2002543044	T	20021217	JP 2000-602278	20000229

AU-2000-33898 20000229
 AT 296839 T 20050615 AT 2000-912115 20000229
 PT 1157041 T 20051031 PT 2000-912115 20000229
 EP 1591456 A1 20051102 EP 2005-8362 20000229
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 ES 2243240 T3 20051201 ES 2000-912115 20000229
 US 2003219434 A1 20031127 US 2003-447331 20030528
 PRIORITY APPLN. INFO.: US 1999-122262P P 19990301
 EP 2000-912115 A3 20000229
 US 2000-515825 A3 20000229
 WO 2000-US5352 W 20000229

ED Entered STN: 10 Sep 2000

AB The present application describes a method for making antibodies which can be used for cancer diagnosis or therapy. The application also discloses a method for identifying an antigen which is differentially expressed on the surface of two or more distinct cell populations. The application addnl. describes human antibodies directed against decay accelerating factor (DAF), as well as therapeutic compns. comprising such antibodies. Moreover, the application disclosed a method of treating lung cancer with antibodies directed against DAF.

IC ICM C07K016-00

CC 15-3 (Immunochemistry)

Section cross-reference(s): 3

IT Lung, neoplasm

(adenocarcinoma; anti-decay-accelerating factor antibodies for cancer therapy and diagnosis)

L87 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 1996:438602 CAPLUS Full-text

DOCUMENT NUMBER: 125:84177

TITLE: Characterization of the complement-regulatory proteins decay-accelerating factor (DAF, CD55) and membrane cofactor protein (MCP, CD46) on a human colonic adenocarcinoma cell line

AUTHOR(S): Bjoere, Line; Jensen, Tone Skeie; Matre, Roald

CORPORATE SOURCE: Gade Institute, University Bergen, Bergen, N-5021, Norway

SOURCE: Cancer Immunology Immunotherapy (1996), 42(3), 185-192
 CODEN: CIIMDN; ISSN: 0340-7004

PUBLISHER: Springer

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 25 Jul 1996

AB To avoid destruction by complement, normal and malignant cells express membrane glycoproteins that restrict complement activity. These include decay-accelerating factor (DAF, CD55), membrane cofactor protein (MCP, CD46), and protectin (CD59), which are all expressed on colonic adenocarcinoma cells in situ. Here, the authors characterized the C3/C5 convertase regulators DAF and MCP on the human colonic adenocarcinoma cell line HT29. DAF is a glycosyl-phosphatidylinositol-anchored 70-kDa glycoprotein. Blocking expts. with F(ab')₂ fragments of the anti-DAF monoclonal antibody BRIC 216 showed that DAF modulates the degree of C3 deposition and mediates resistance to complement-mediated killing of the cells. The expression and function of DAF were enhanced by tumor necrosis factor α (TNF α) and interleukin-1 β (IL-1 β). Cells incubated with interferon γ (IFN γ) did not alter their DAF expression. Two MCP forms were expressed, with mol. masses of approx. 58 kDa and 68 kDa, the lower form predominating. MCP expression was up-regulated by IL-1 β , but

not by TNF α or IFN γ . Expression of DAF and MCP promotes resistance of colonic adenocarcinoma cells to complement-mediated damage, and represents a possible mechanism of tumor escape.

- CC 15-4 (Immunohistochemistry)
Section cross-reference(s): 14
- ST complement decay accelerating factor colon
adenocarcinoma; membrane cofactor protein MCP colon
adenocarcinoma
- IT Glycoproteins, specific or class
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
BIOL (Biological study); OCCU (Occurrence)
(MCP (membrane cofactor protein), complement decay-
accelerating factor and membrane cofactor protein
expression on human colonic adenocarcinoma cells in relation
to tumor pathogenesis)
- IT Intestine, neoplasm
(colon, adenocarcinoma, complement decay-
accelerating factor and membrane cofactor protein
expression on human colonic adenocarcinoma cells in relation
to tumor pathogenesis)
- IT Lymphokines and Cytokines
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(interleukin 1 β , complement decay-accelerating
factor and membrane cofactor protein expression on human
colonic adenocarcinoma cells response to)
- IT Lymphokines and Cytokines
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(tumor necrosis factor- α , complement decay-
accelerating factor and membrane cofactor protein
expression on human colonic adenocarcinoma cells response to)
- IT Interferons
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(γ , complement decay-accelerating
factor and membrane cofactor protein expression on human
colonic adenocarcinoma cells response to)
- IT 99085-47-9, Complement decay-accelerating
factor
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
BIOL (Biological study); OCCU (Occurrence)
(complement decay-accelerating factor and
membrane cofactor protein expression on human colonic
adenocarcinoma cells in relation to tumor pathogenesis)

L87 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:238155 CAPLUS Full-text

DOCUMENT NUMBER: 144:310062

TITLE: Genes showing altered levels of expression in
pancreatic disease and their use in diagnosis and
prognosis of pancreatic cancer

INVENTOR(S): Kloeppel, Guenter; Luetzges, Jutta; Kalthoff, Holger;
Ammerpohl, Ole; Gruetzmann, Robert; Pilarsky,
Christian; Saeger, Hans Detlev; Alldinger, Ingo

PATENT ASSIGNEE(S): Technische Universitaet Dresden, Germany

SOURCE: Ger. Offen., 132 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

DE 102004042822 German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004042822	A1	20060316	DE 2004-102004042822	20040831
WO 2006024283	A2	20060309	WO 2005-DE1527	20050826
WO 2006024283	A3	20060831		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

DE 2004-102004042822A 20040831

ED Entered STN: 17 Mar 2006

AB Genes showing altered levels of expression in healthy vs. neoplastic pancreas are identified for use in the diagnosis of cancers including ductal adenocarcinoma; as indicators in screening for effective drugs; and as targets for nucleic acid-based therapies including antisense nucleic acids or siRNA. Gene expression profiling identified 1419 genes showing changes in levels of expression in neoplastic epithelium of which 650 were up-regulated and 769 were down-regulated. Of the 1419 genes, 1267 were not previously known to have any connection with pancreatic neoplasms.

CC 14-1 (Mammalian Pathological Biochemistry)

Section cross-reference(s): 3

IT Cannabinoid receptors

Glycoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (1, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)

IT Glycoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (C4bp (complement C4b-binding protein), β , gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)

IT Enzymes, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (DNA helicase LSH (lymphoid-specific helicase), gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (Egr-1, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (GPR143, marker in diagnosis of pancreatic disease; genes showing

- altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **Histones**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (H4, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **Gene, animal**
 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (KIF11, marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **Glycoproteins**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (M6A, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **Glycoproteins**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (M6B, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **P-glycoproteins**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (MDR1, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **P-glycoproteins**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (MDR3, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **Gene, animal**
 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RELN, marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT **Gene, animal**
 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SEPP1, marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)
- IT 9000-83-3, ATPase 9001-08-5, Butyrylcholinesterase 9001-15-4, Creatine kinase 9001-29-0, Coagulation factor X 9001-50-7, Glyceraldehyde-3-phosphate dehydrogenase 9001-52-9, Fructose-1,6- bisphosphatase 9001-59-6, Pyruvate kinase 9001-60-9, Lactate dehydrogenase 9001-62-1 9001-77-8, Acid phosphatase 9001-80-3, Phosphofructokinase 9001-83-6, Phosphoglycerate kinase 9001-84-7, Phospholipase A2 9001-85-8, Lysophospholipase 9002-06-6, Thymidine kinase 9012-34-4, Acylphosphatase 9013-08-5, Phosphoenolpyruvate carboxykinase 9013-18-7, Long chain acyl-CoA synthetase 9013-55-2, Blood-coagulation factor XI 9013-66-5, GLUTATHIONE PEROXIDASE 9013-81-4, IMP cyclohydrolase 9014-08-8, Enolase 9014-18-0, Nicotinamide nucleotide transhydrogenase 9014-34-0, Stearoyl-CoA desaturase 9014-46-4, Transaldolase 9015-82-1, Angiotensin I converting enzyme 9023-46-5, Threonyl-tRNA synthetase 9023-53-4, Phosphoribosylaminoimidazole synthetase 9023-67-0, Phosphoribosylaminoimidazole succinocarboxamide

synthetase 9023-78-3, Triosephosphate isomerase 9024-52-6, Fructose-1,6-bisphosphate aldolase 9024-53-2, Glutamate decarboxylase 9024-61-7, Histidine decarboxylase 9025-77-8, Phosphatidic acid phosphatase 9026-00-0, Bile salt-stimulated lipase 9026-51-1, Nucleoside-diphosphate kinase 9027-35-4, Glycine amidinotransferase 9027-73-0, 5'-Nucleotidase 9027-80-9, Adenine phosphoribosyltransferase 9028-06-2, Proline 4-hydroxylase 9029-07-6, Aldehyde oxidase 9029-73-6, Phenylalanine hydroxylase 9029-83-8, Serine hydroxymethyltransferase 9029-88-3, Acetylglutamate synthase 9029-95-2, Glycine acyltransferase 9030-22-2, Uridine phosphorylase 9031-37-2, Ferroxidase 9031-61-2, Thymidylate synthetase 9031-86-1, Aspartoacylase 9032-01-3, Phosphoribosylglycinamide synthetase 9032-02-4, Phosphoribosylglycinamide formyltransferase 9032-03-5, 5-Aminoimidazole-4-carboxamide ribonucleotideformyltransferase 9032-04-6, Phosphoribosylaminoimidazole carboxylase 9032-20-6, NAD(P)H dehydrogenase, quinone 9032-29-5, Dihydrolipoamide acetyltransferase 9032-66-0, NAD kinase 9032-69-3, NAD synthetase 9032-73-9, Monocyte/macrophage serine esterase 1) 9035-39-6, Cytochrome b5 9035-81-8, Antitrypsin 9036-09-3, Chymotrypsin C 9039-53-6, Urokinase 9045-31-2, γ -Butyrobetaine hydroxylase 9047-64-7, Ribonucleotide reductase 9054-63-1, Aminopeptidase N 9055-66-7, Phenylalanine-tRNA synthetase 9059-11-4, Amine oxidase 9074-87-7, γ -Glutamyl hydrolase 9075-15-4, UDP-N-acetyl- α -D-galactosamine: protein N-acetylgalactosaminyltransferase 9075-59-6, Glutaminyl-tRNA synthetase 9075-65-4, Glycerol-3-phosphate dehydrogenase 9081-34-9, Steroid-5 α -reductase 12651-27-3, Transcobalamin I 37211-59-9, GDP-mannose 4,6-dehydratase 37228-72-1, Glycine methyltransferase 37237-43-7, β 1,4-Galactosyltransferase-I 37255-38-2, Glutaryl-Coenzyme A dehydrogenase 37257-21-9, Glutaminyl-peptide cyclotransferase 37270-64-7, Acyl-CoA hydrolase 37278-25-4, Ribonuclease t2 37288-40-7 39419-81-3, Holocarboxylase synthetase 50864-48-7, Sphingosine kinase 1 52410-46-5, Sterol Δ 8 \rightarrow 7-isomerase 55126-92-6, Colipase 56645-49-9, Cathepsin G 58319-92-9, ADP-ribosyltransferase 59536-74-2, Long chain acyl-Coenzyme A dehydrogenase 62229-50-9, Epidermal growth factor 65802-85-9, Prostaglandin D2 synthase 65979-40-0 68651-94-5 72162-84-6, Prolyl endopeptidase 72162-89-1, TRNA-guanine transglycosylase 74812-49-0, E3 Ubiquitin protein ligase 75536-80-0, Peptidyl arginine deiminase 76774-39-5, Ribonuclease L 80295-56-3, Complement C6 80295-57-4, Complement C7 80295-65-4, Complement factor H 81181-75-1, Lewis type 1 antigen synthase 82599-72-2, Polynucleotide kinase 3'-phosphatase 83589-04-2, Chondroitin sulfotransferase 87397-91-9, Thymosin β 10 91386-47-9, Mesotrypsin 95076-93-0, Peptidyl prolyl isomerase 97089-82-2, 6-Pyruvoyl-tetrahydropterin synthase 99085-47-9, Complement decay-accelerating factor 99194-04-4, Cystatin B 102484-71-9, Cystatin SN 102576-81-8, Acetylglucosaminyltransferase I 104645-76-3, Phosphatidylinositol-4-phosphate 5-kinase 106602-62-4, Islet amyloid polypeptide 107544-29-6, Cystatin A 109136-49-4, Ubiquitin specific protease 110071-61-9, Myristoylating enzymes 110910-42-4, Cathepsin E 111693-80-2, Inositol polyphosphate-4-phosphatase 111745-44-9, Neuromedin U 114051-78-4, Lck kinase 117628-82-7, Follistatin 117698-12-1, Paraoxonase 120038-28-0, Carboxypeptidase M 125692-40-2, Endothelin 3 142805-56-9, DNA topoisomerase II 143375-33-1, Neurotrophin 5 145267-01-2, Stromelysin 3 148047-29-4, Gene TEK protein tyrosine kinase 149371-24-4, Neurolysin 151662-24-7, Paired basic amino acid cleaving enzyme 4 151662-33-8, Pregnancy-associated plasma protein A 152166-53-5, Neurotrophic factor receptor tyrosine kinase 152787-71-8, TTK kinase 153190-51-3, Protein tyrosine kinase PTK6 155807-64-0, Flap

structure-specific endonuclease 1 158254-85-4, Lysophosphatidic acid phosphatase 150477-63-4, Tissue factor pathway inhibitor 2 160477-87-2, P-TSLRE protein kinase 165245-94-3, NIMA-related kinase 2 167397-96-8, Interleukin-1 receptor-associated kinase 1 169592-65-8, β -Carotene 4,4'-dioxygenase 172306-54-6, LIM kinase 2 178037-70-2, Protein kinase SGK 178303-46-3, BMX tyrosine kinase 181186-98-1, Carboxypeptidase A2 182372-11-8, Meltrin α 186270-49-5, Angiopoietin 1 188364-82-1, Neuroserpin 190606-22-5, Maternal embryonic leucine zipper kinase 192588-76-4, CASP8 and FADD-like apoptosis regulator 202420-40-4, Serine/threonine protein kinase 11 204655-80-1, Serine proteinase 25 206566-35-0, Molybdenum cofactor sulfurase 241475-68-3, ADAMTS-1 246521-08-4, Hyaluronan binding protein 2 251104-39-9, Tolloid-like 2 252351-00-1, Metalloproteinase ADAM8 288265-32-7, ADAM28 288307-53-9, Inositol 1,3,4-trisphosphate 5/6 kinase 306298-47-5, Dual specificity phosphatase 1 330197-29-0, Cyclin-dependent kinase 7 330207-13-1, Cytochrome P 450 2C8 334993-12-3, Kallikrein 10 342900-25-8, Kallikrein 12 354807-39-9 361186-67-6, MAPK phosphatase 7 361540-77-4, Protein phosphatase 3 362674-81-5, Protein phosphatase 2A 364367-46-4, Protein phosphatase 4 370088-29-2, Mitogen-activated protein kinase kinase kinase 4 371761-91-0, (Survivin) 376596-92-8, β -Defensin 1 388138-21-4, KiSS-1 metastasis-suppressor 389069-73-2, Kallikrein 1 404843-77-2, Reelin 415715-09-2, BMP2 inducible kinase 458560-40-2, Serine/threonine protein kinase 6 473573-11-4, Protein kinase Rio2 475678-93-4, Short chain dehydrogenase reductase 489461-60-1, Trypsin-2 495418-42-3, Cytochrome P 450 4X1 690230-94-5, Metalloproteinase ADAM33

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)

IT 72162-83-5, Glycoprotein sulfotransferase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(glycoprotein sulfotransferase, gene for, as marker in diagnosis of pancreatic disease; genes showing altered levels of expression in pancreatic disease and their use in diagnosis and prognosis of pancreatic cancer)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1167571 CAPLUS Full-text

DOCUMENT NUMBER: 146:59916

TITLE: Differential expression of insulin-like growth factor binding protein-5 in pancreatic adenocarcinomas: identification using DNA microarray

AUTHOR(S): Johnson, Sarah K.; Dennis, Richard A.; Barone, Gary W.; Lamps, Laura W.; Haun, Randy S.

CORPORATE SOURCE: Department of Pathology, University of Arkansas for Medical Sciences, Little Rock, AR, USA

SOURCE: Molecular Carcinogenesis (2006), 45(11), 814-827
CODEN: MOCAE8; ISSN: 0899-1987

PUBLISHER: Wiley-Liss, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 07 Nov 2006

AB Pancreatic ductal adenocarcinoma (PDAC) is characterized by its aggressiveness and resistance to both radiation and chemotherapeutic treatment. To better understand the mol. pathogenesis of pancreatic cancer, DNA array technol. was employed to identify genes differentially expressed in pancreatic tumors when

247-45015-4-22 compared to non-malignant pancreatic tissues. RNA isolated from 15 PDACs and 14 non-malignant bulk pancreatic duct specimens was used to probe Affymetrix U95A DNA arrays. Genes that displayed at least a fourfold differential expression were identified and real-time quant. PCR was used to verify the differential expression of selected upregulated genes. Interrogation of the DNA array revealed that 73 genes were upregulated in PDACs and 77 genes were downregulated. The majority of the 150 genes identified have not been previously reported to be differentially expressed in pancreatic tumors, although a number of the upregulated transcripts have been reported previously. Immunohistochem. was used to correlate calponin and insulin-like growth factor binding protein-5 (IGFBP-5) RNA levels with protein expression in PDACs and revealed peritumoral calponin staining in the reactive stroma and intense focal staining of islets cells expressing IGFBP-5 at the edge of tumors; thus implicating the interplay of various cell types to promote neoplastic cell growth within pancreatic carcinomas. As a potential modulator of cell proliferation, the overexpression of IGFBP-5 may, therefore, play a significant role in the malignant transformation of normal pancreatic epithelial cells.

CC 14-1 (Mammalian Pathological Biochemistry)

Section cross-reference(s): 3

IT 99085-47-9, Decay accelerating factor

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(differential expression of insulin-like growth factor binding protein-5 and other genes in pancreatic adenocarcinomas)

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:324225 CAPLUS Full-text

DOCUMENT NUMBER: 141:86940

TITLE: Enhanced expression of decay-accelerating factor, a complement-regulatory protein, in the specialized intestinal metaplasia of Barrett's esophagus

AUTHOR(S): Hiraoka, Sakiko; Mizuno, Motowo; Nasu, Junichirou; Okazaki, Hiroaki; Makidono, Chiho; Okada, Hiroyuki; Terada, Ryo; Yamamoto, Kazuhide; Fujita, Teizo; Shiratori, Yasushi

CORPORATE SOURCE: Department of Medicine and Medical Science (Medicine 1), Okayama University Graduate School of Medicine and Dentistry, Okayama, Japan

SOURCE: Journal of Laboratory and Clinical Medicine (2004), 143(4), 201-206

CODEN: JLCMAK; ISSN: 0022-2143

PUBLISHER: Elsevier Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 21 Apr 2004

AB Intestinal-type epithelium in Barrett's esophagus, so-called specialized intestinal metaplasia (SIM), is a risk factor for the development of esophageal adenocarcinoma. Surface expression of decay-accelerating factor (DAF), a complement-regulatory protein, is markedly enhanced in intestinal metaplasia of the gastric mucosa. The authors therefore examined DAF expression in areas of SIM in Barrett's esophagus to determine whether DAF is a biomarker of SIM. The authors obtained 53 endoscopic biopsy specimens from the esophageal columnar mucosae of 45 patients. The authors immunohistochem. examined the distribution of DAF and 2 other complement-regulatory proteins: homologous restriction factor-20 and membrane cofactor protein. The authors also examined the expression of DAF mRNA in SIM with the use of laser-capture microdissection and reverse transcription-polymerase chain reaction. Of the 53 specimens, 10 were found histol. to involve areas of SIM, 41 were SIM-neg.

epithelium, and 2 comprised areas of SIM and SIM-neg. epithelium. DAF staining was negligible in 35 of 43 specimens of the SIM-neg. columnar epithelium, but DAF was strongly stained on the apical surface in all 12 SIM-pos. specimens. In the 2 biopsy specimens in which both SIM and SIM-neg. columnar epithelium were present, DAF staining was confined to the area of SIM. The expression of DAF mRNA was detected significantly more often in SIM than in SIM-neg. columnar epithelium. The authors conclude that DAF may be a surface marker for SIM and therefore useful in the identification of areas of the mucosa at risk for the development of adenocarcinoma in Barrett's esophagus.

CC 14-7 (Mammalian Pathological Biochemistry)

IT Esophagus, disease

(Barrett's syndrome; enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Proteins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (MCP (membrane cofactor protein); enhanced expression of **decay-accelerating factor** and other complement-regulatory proteins in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Esophagus, neoplasm

(**adenocarcinoma**; enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Cell membrane

(apical; enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT CD59 (antigen)

RL: BSU (Biological study, unclassified); BIOL (Biological study) (enhanced expression of **decay-accelerating factor** and other complement-regulatory proteins in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Human

Prognosis

(enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Esophagus

(epithelium, columnar; enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Carcinoma

(esophageal **adenocarcinoma**; enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Epithelium

(esophageal, columnar; enhanced expression of **decay-accelerating factor** in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal **adenocarcinoma** development)

IT Intestinal disease, (metaplasia; enhanced expression of decay-accelerating factor in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal adenocarcinoma development)

IT 99085-47-9, Decay accelerating factor

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); BIOL (Biological study); USES (Uses)
(enhanced expression of decay-accelerating factor in specialized intestinal metaplasia of Barrett's esophagus in relation to esophageal adenocarcinoma development)

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER.13 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:446876 CAPLUS Full-text

DOCUMENT NUMBER: 138:70725

TITLE: Characterization of gene expression profiles in intraductal papillary-mucinous tumors of the pancreas

AUTHOR(S): Terris, Benoit; Blaveri, Ekaterina; Crnogorac-Jurcevic, Tatjana; Jones, Melanie; Missiaglia, Edoardo; Ruzsniowski, Philippe; Sauvanet, Alain; Lemoine, Nicholas R.

CORPORATE SOURCE: Cancer Research UK Molecular Oncology Unit, Imperial College School of Medicine at Hammersmith Campus, London, UK

SOURCE: American Journal of Pathology (2002), 160(5), 1745-1754

CODEN: AJPA44; ISSN: 0002-9440

PUBLISHER: American Society for Investigative Pathology

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 14 Jun 2002

AB The mol. pathol. of precursor lesions leading to invasive pancreatic ductal adenocarcinomas remains relatively unknown. The authors have applied cDNA microarray anal. to characterize gene expression profiles in a series of intraductal papillary-mucinous tumors (IPMTs) of the pancreas, which represents one of the alternative routes of intraepithelial progression to full malignancy in the pancreatic duct system. Using a cDNA microarray containing 4992 human genes, the authors screened a total of 13 IPMTs including nine noninvasive and four invasive cases. Expression change in more than half of the tumors was observed for 120 genes, i.e., 62 up-regulated and 58 down-regulated genes. Some of the up-regulated genes in this study have been previously described in classical pancreatic carcinomas such as lipocalin 2, galectin 3, claudin 4, and cathepsin E. The most highly up-regulated genes in IPMTs corresponded to three members of the trefoil factor family (TFF1, TFF2, and TFF3). Immunohistochem. performed on five genes found to be differentially expressed at the RNA level (TFF1, TFF2, TFF3, lipocalin 2, and galectin 3) showed a good concordance between transcript level and protein abundance, except for TFF2. Hierarchical clustering organized the cases according to the dysplastic and invasive phenotype of the IPMTs. This anal. has permitted us to implicate several genes (caveolin 1, glypican 1, growth arrest-specific 6 protein, cysteine-rich angiogenic inducer 61) in tumor progression. The observation that several genes are differentially expressed both in IPMTs and pancreatic carcinomas suggests that they may be involved at an early stage of pancreatic carcinogenesis.

CC 14-1 (Mammalian Pathological Biochemistry)

Section cross-reference(s): 3

IT Pancreas, neoplasm

(duct cell adenocarcinoma; characterization of gene expression profiles in intraductal papillary-mucinous tumors of pancreas)

IT Carcinoma

(pancreatic ductal adenocarcinoma; characterization of gene expression profiles in intraductal papillary-mucinous tumors of pancreas)

IT 99085-47-9, CD55 antigen 110910-42-4, Cathepsin E
147014-97-9, CDK4 kinase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(characterization of gene expression profiles in intraductal papillary-mucinous tumors of pancreas)

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:258387 CAPLUS Full-text

DOCUMENT NUMBER: 135:224861

TITLE: Polymorphic expression of decay-accelerating factor in human colorectal cancer

AUTHOR(S): Nakagawa, Masahiro; Mizuno, Motowo; Kawada, Mikihiro; Uesu, Tokuro; Nasu, Junichirou; Takeuchi, Kazuaki; Okada, Hiroyuki; Endo, Yuichi; Fujita, Teizo; Tsuji, Takao

CORPORATE SOURCE: First Department of Internal Medicine, Okayama University Medical School, Okayama, 700-8558, Japan

SOURCE: Journal of Gastroenterology and Hepatology (2001), 16(2), 184-189

CODEN: JGHEEO; ISSN: 0815-9319

PUBLISHER: Blackwell Science Asia Pty Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 Apr 2001

AB We have previously shown that expression of decay-accelerating factor (DAF), a complement regulatory protein, is enhanced immunohistochem. on the luminal surface of cancer glands in human colorectal cancer and is detected in stool specimens of patients with colorectal cancer. The amount of DAF present in the stools might be influenced by the stability of DAF on the cell surface which is regulated by biochem. properties such as glycosylation of the protein. In the present study, to help elucidate the mechanism for the release of DAF from human colorectal cancers, we biochem. analyzed DAF expression by western and northern blotting by using surgically resected specimens of colorectal cancers. Surgically resected colorectal cancer tissues were obtained from 10 patients. Expression of DAF was determined by western and northern blotting, and glycosylation of DAF protein was analyzed with glycosidase digestion. Northern blot anal. demonstrated that the expression of DAF mRNA in colorectal cancer was enhanced two- to threefold compared with normal tissues. In western blotting, expression of DAF protein in the cancer tissue was increased, and heterogeneity in the apparent mol. weight of DAF was observed among patients. When O-linked sugars were removed, this heterogeneity of DAF size diminished. The polymorphic expression of DAF in colorectal cancer is likely to reflect variability in the O-glycosylation of the protein. We speculate that this variability could affect the stability of DAF on the surfaces of cancer cells and, in turn, the amount of DAF shed into the stools of colorectal cancer patients.

CC 14-1 (Mammalian Pathological Biochemistry)

Section cross-reference(s): 15

IT Intestine, neoplasm

(colorectal adenocarcinoma; polymorphic expression of decay-accelerating factor in human

colorectal cancer) 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS
 REFERENCE COUNT: 30 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:344861 CAPLUS Full-text
 DOCUMENT NUMBER: 131:4240
 TITLE: Immunoglobulin molecules having a synthetic variable
 region and modified specificity
 INVENTOR(S): Burch, Ronald M.
 PATENT ASSIGNEE(S): Euro-Celtique, S.A., Bermuda
 SOURCE: PCT Int. Appl., 123 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9925378	A1	19990527	WO 1998-US24302	19981113
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2309990	A1	19990527	CA 1998-2309990	19981113
CA 2310269	A1	19990527	CA 1998-2310269	19981113
WO 9925379	A1	19990527	WO 1998-US24303	19981113
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
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AU 9914597	A	19990607	AU 1999-14597	19981113
AU 763029	B2	20030710		
AU 9914598	A	19990607	AU 1999-14598	19981113
AU 737457	B2	20010823		
EP 1030684	A1	20000830	EP 1998-958584	19981113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
EP 1032420	A1	20000906	EP 1998-958583	19981113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001526021	T	20011218	JP 2000-520811	19981113
BR 9815289	A	20011226	BR 1998-15289	19981113
BR 9815580	A	20020129	BR 1998-15580	19981113
JP 2002507544	T	20020312	JP 2000-520812	19981113
ZA 9900048	A	19990708	ZA 1999-48	19990105
ZA 9900049	A	20000309	ZA 1999-49	19990105
IN 1999MA00038	A	20050304	IN 1999-MA38	19990107
US 2002028469	A1	20020307	US 2001-963232	20010926
CN 1561287	A	20050105	CN 2002-819009	20020828
AU 2003252902	A1	20031106	AU 2003-252902	20031010

ED Entered STN: 07 Jun 1999
 AB The invention provides modified Ig mols., particularly antibodies, that immunospecifically bind a first member of a binding pair which binding pair consists of the first member and a second member, which Igs have a variable domain containing one or more complimentary determining regions that contain the amino acid sequence of a binding site for the second member of the binding pair. The first member is a tumor antigen or an antigen of an infectious disease agent, and the second member is a mol. on the surface of an immune cell. The invention further provides for therapeutic and diagnostic use of the modified Ig.
 IC ICM A61K039-395
 ICS C12N005-12; C12N015-13; C07K016-42; C07K016-08; C07K016-30
 CC 15-3 (Immunochemistry)
 Section cross-reference(s): 3
 IT Glycoproteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (195 transmissible gastroenteritis; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
 IT Glycoproteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (38 swine rotavirus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
 IT Glycoproteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (48 and 53; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
 IT Glycoproteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (55, bovine viral diarrhea virus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
 IT Glycoproteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (B, equine herpes virus type I; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
 IT Glycoproteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (E, pseudorabies virus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
 IT Human respiratory syncytial virus
 (G glycoprotein; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)

- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (G, human respiratory syncytial virus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (HN (hemagglutinin-neuraminidase); modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (LPS-LBP (lipopolysaccharide-containing lipopolysaccharide-binding protein), receptors, antigen CD14-containing; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, general, biological studies**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (La Crosse virus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (MCP (membrane cofactor protein), receptor; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (MCP (membrane cofactor protein); modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Carcinoma**
 (adenocarcinoma, antigen; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Human immunodeficiency virus 1**
 (envelope glycoproteins; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (gB herpes simplex virus type 2; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (gD, equine herpes virus type I; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT **Glycoproteins, specific or class**
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

- (gH, pseudorabies virus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gI, infectious laryngotracheitis virus; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Porcine rotavirus
(glycoprotein 38; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Bovine diarrhea virus
(glycoprotein 55; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Equid herpesvirus 1
(glycoprotein B; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Bovine herpesvirus 1
(glycoprotein E; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Gallid herpesvirus 1
(glycoprotein G; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Human herpesvirus 2
(glycoprotein gB; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT La Crosse virus
(glycoprotein; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gp39; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gp46, surface; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gp70; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(neoglycoproteins; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious

and agent and surface mol. of immune cell) human, (neonatal glycoprotein; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)

IT 9026-43-1, Protein kinase 55717-54-9, N-Acetyl-9-O-acetylneuraminic acid 99085-47-9, Decay-accelerating factor

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(receptor; modified Ig mols. having a synthetic variable region and modified specificity for tumor antigen or antigen of infectious agent and surface mol. of immune cell)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:703347 CAPLUS Full-text

DOCUMENT NUMBER: 130:108960

TITLE: The complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues

AUTHOR(S): Thorsteinsson, L.; O'Dowd, G. M.; Harrington, P. M.; Johnson, P. M.

CORPORATE SOURCE: Cancer Tissue Bank Research Centre, and Departments of Immunology and, University of Liverpool, Liverpool, UK

SOURCE: APMIS (1998), 106(9), 869-878
CODEN: APMSEL; ISSN: 0903-4641

PUBLISHER: Munksgaard International Publishers Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 05 Nov 1998

AB Three of the proteins protecting cells from autologous lysis by complement are: membrane cofactor protein (MCP; CD46), an inhibitor of the membrane attack complex formation (CD59), and decay accelerating factor (DAF; CD55). We have investigated the expression of these proteins in breast and colorectal carcinoma by immunohistochem. and immunoblotting of breast tissue for CD46. CD46 was consistently and strongly expressed in the epithelial compartment in 26/28 ductal carcinomas of the breast, 9/9 fibroadenomas, and 9/11 cases of control non-neoplastic breast tissue. CD59 showed a similar degree of expression in the fibroadenomas (9/9), but was less strongly expressed in carcinomatous (22/28) and control (5/11) tissues. In marked contrast, no CD55 expression was detected in tissue from 15 ductal carcinomas. Immunoblotting of breast tissue for CD46 showed the same size of the mol. as for lymphocytes. It had however considerably stronger expression in tumor tissue than in non-neoplastic tissue. CD46 and CD59 were either lacking or only weakly expressed in the epithelial component of control colorectal mucosa: 2/15 and 5/15, resp. In contrast, tissue samples from colorectal adenocarcinomas showed clear staining for both CD59 (10/18) and, more markedly, CD46 (15/18). There was no association between the pattern or intensity of CD46 and CD59 expression and tumor differentiation. As the complement regulatory proteins CD46 and CD59 are also strongly expressed by trophoblast at the feto-maternal tissue interface, these results support the concept that similar mechanisms are employed both by the genetically dissimilar fetus and certain tumors to evade immune attack by their host.

CC 15-4 (Immunohistochemistry)

ST CD46 CD59 breast carcinoma immunosuppression; colorectal adenocarcinoma CD46 CD59 immunosuppression

IT Glycoproteins, specific or class

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

BIOL (Biological study); OCCU (Occurrence)
 (MCP (membrane cofactor protein); complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues)

- IT Intestine, neoplasm
 (colorectal adenocarcinoma; complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues)
- IT Immunosuppression
 (complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues)
- IT CD59 (antigen)
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
 BIOL (Biological study); OCCU (Occurrence)
 (complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues)
- IT Mammary gland
 (ductal carcinoma; complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues)
- IT Mammary gland
 (fibroadenoma; complement regulatory proteins CD46 and CD59, but not CD55, are highly expressed by glandular epithelium of human breast and colorectal tumor tissues)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L87 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:160210 CAPLUS Full-text

DOCUMENT NUMBER: 124:258031

TITLE: Differential expression of complement proteins and regulatory decay accelerating factor in relation to differentiation of cultured human colon adenocarcinoma cell lines

AUTHOR(S): Bernet-Camard, M.-F.; Coconnier, M.-H.; Hudault, S.; Servin, A. L.

CORPORATE SOURCE: UPS de Pharmacie, Paris-XI, Chatenay-Malabry, F-92296, Fr.

SOURCE: Gut (1996), 38(2), 248-53
 CODEN: GUTTAK; ISSN: 0017-5749

PUBLISHER: BMJ Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 19 Mar 1996

AB Self protection of host cells against inadvertent injury resulting from attack by autologous complement proteins is well reported for vascular epithelium. In intestinal epithelium, the expression of C complement proteins and regulatory proteins remains currently poorly reported. This study looked at the distribution of C complement proteins and regulatory decay accelerating factor (DAF) in four cultured human intestinal cell lines of embryogenic or colon cancer origins. C3 and C4 proteins and DAF were widely present in human colon adenocarcinoma T84, HT-29 glc-/+ cells compared with human embryonic INT407 cells. In contrast, no expression of C5, C5b-9, and CR1 was seen for any of the cell lines. Taking advantage of the Caco-2 cells, which spontaneously differentiate in culture, it was seen that the C3, C4, and DAF were present in undifferentiated cells and that their expression increased as a function of the cell differentiation. These results, taken together with

Other reports on the presence of C complement proteins and DAF in the intestinal cells infer that the expression of regulatory C complement proteins develops in parallel with the expression of C proteins to protect these cells against the potential injury resulting from the activation of these local C proteins. Moreover, the finding that the pathogenic C1845 Escherichia coli binds to the membrane bound DAF in the cultured human intestinal cells synthesizing locally C proteins and regulatory C proteins supports the hypothesis that E. coli could promote inflammatory disorders by blocking local regulatory protein function.

CC 15-4 (Immunochemistry)
Section cross-reference(s): 10

L87 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:667694 CAPLUS Full-text

DOCUMENT NUMBER: 119:267694

TITLE: Levels of complement regulatory molecules in lung cancer: disappearance of the D17 epitope of CD55 in small-cell carcinoma

AUTHOR(S): Sakuma, Takahiko; Kodama, Ken; Hara, Tomoko; Eshita, Yoshimi; Shibata, Nobuhiko; Matsumoto, Misako; Seya, Tsukasa; Mori, Yoichi

CORPORATE SOURCE: Dep. Intern. Med., Cent. Adult Dis. Osaka, Osaka, 537, Japan

SOURCE: Japanese Journal of Cancer Research (1993), 84(7), 753-9

CODEN: JJCREP; ISSN: 0910-5050

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 25 Dec 1993

AB The levels of complement-regulatory mols. (complement receptor type one [CRI], decay-accelerating factor [DAF], membrane cofactor protein [mcp], and an inhibitor of membrane attack complex [CD59]) in lung cancer cells were analyzed to investigate the relation between their expression and histol. subtypes, and the possibility of homologous complement deposition on cancer cells. In 25 cell lines (10 adenocarcinoma, 3 large-cell carcinoma, 7 small-cell lung cancer [SCLC], and 5 squamous cell carcinoma), flow cytometric anal. revealed that MCP was expressed in all cell lines, whereas none of the cell lines was CR1-pos., CD59 was detected in all cells. The DAF epitope defined by IA10 was expressed in all cells except one large cell carcinoma cell line. However, another epitope for anti-DAF monoclonal antibody, D17, was not detected in 5 (71.4%) SCLC and in 4 (22.2%) non-small-cell lung cancer. This disparity was seen in most cell lines, irresp. of histol. subtypes. The loss of D17 reactivity seemed to be pertinent to malignant phenotype, because most of the normal pulmonary cells possessed the D17 epitope. Furthermore, a cell line lacking DAF (IA10-/D17-) allowed alternative pathway-mediated homologous complement (C3) deposition after pretreatment with anti-MCP antibody. This raises a new possibility for immuno-targeting of cancer. These cell lines should be useful in studying the biol. of lung cancer.

CC 14-1 (Mammalian Pathological Biochemistry)

Section cross-reference(s): 15

IT Glycoproteins, specific or class

RL: BIOL (Biological study)

(MCP (membrane cofactor protein), of lung carcinoma cells, of humans)

IT Lung, neoplasm

(adenocarcinoma, complement regulatory proteins of cells of, of humans)

IT Lung, neoplasm

(small-cell carcinoma, complement regulatory proteins and lack of D17 epitope-defined decay-accelerating factor of cells of, of humans)

JT 99085 47-9, Decay-accelerating factor
 RL: BIOL (Biological study)
 (of lung carcinoma cells, of humans, decay-
 accelerating factor D17 epitope absence in small-cell
 carcinoma of lung in relation to)

L87 ANSWER 19 OF 28 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2005-435500 [44] WPIX
 DOC. NO. CPI: C2005-133663 [44]
 DOC. NO. NON-CPI: N2005-353395 [44]
 TITLE: System, useful for transdermal delivery of an active
 agent, comprises an apparatus (capable of generating at
 least one micro-channel in an area on the skin) and a
 patch comprising at least one drug reservoir layer
 DERWENT CLASS: A18; A23; A25; A96; B04; B07; P34
 INVENTOR: LEVIN G; SACKS H
 PATENT ASSIGNEE: (TRAN-N) TRANSPHARMA MEDICAL LTD
 COUNTRY COUNT: 107

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2005056075	A2	20050623	(200544)	*	EN	53[12]
EP 1691823	A2	20060823	(200655)		EN	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2005056075	A2	WO 2004-IL1119	20041209
EP 1691823	A2	EP 2004-801605	20041209
EP 1691823	A2	WO 2004-IL1119	20041209

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1691823	A2 Based on	WO 2005056075 A

PRIORITY APPLN. INFO: IL 2003-159273 20031209

INT. PATENT CLASSIF.:

IPC ORIGINAL: A61K0038-02 [I,A]; A61K0038-28 [I,A]; A61K0038-39 [I,A];
 A61N0001-00 [I,A]; A61N0001-30 [I,A]; C07K0014-435 [I,C];
 C07K0014-62 [I,A]; C07K0014-78 [I,A]; C07K0002-00 [I,A]

IPC RECLASSIF.: A61K [I,S]; A61M [I,S]

BASIC ABSTRACT:

WO 2005056075 A2 UPAB: 20051222

NOVELTY - System (A) for facilitating transdermal delivery of an active agent
 (B) through skin comprises an apparatus (I) capable of generating at least one
 micro-channel in an area on the skin and a patch (II) comprising at least one
 drug reservoir layer (1), which comprises a polymeric matrix and a
 pharmaceutical composition comprising an active agent (at least one
 therapeutic or immunogenic peptide, polypeptide or protein).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) (II)
 adapted for transdermal delivery of (B), comprising (1), which comprises a
 hydrophilic polymeric matrix and (B) such as a therapeutic or immunogenic

peptide, polypeptide and protein; and (2) a method for sustained transdermal delivery of a therapeutic or immunogenic agent, comprising generating at least one micro-channel in a region on the skin, affixing (II) to the region of skin in which the at least one microchannel is present and achieving a therapeutic blood concentration of the peptide, polypeptide or protein for at least 6 hours.

USE - (A) is useful for sustained transdermal delivery of an active agent such as therapeutic or immunogenic peptide, polypeptide or protein (claimed).

ADVANTAGE - (A) is highly efficient and provides sustained and slow delivery of hydrophilic high molecular weight proteins. (I) present in (A) enhances the transdermal delivery of an active agent and (II) present in (A) maintains the stability and activity of the active agent throughout the transdermal delivery, thus maintaining therapeutic blood concentrations for significantly extended periods of time and achieving extended therapeutic effect as compared to that obtained by subcutaneous injection. MANUAL CODE: CPI: A12-V01; B04-B04C; B04-C01; B04-C02A2; B04-C02E3;

B04-C03; B04-G01; B04-H06; B04-J01; B04-K01; B04-L03;
B04-L05; B04-N02; B04-N04; B04-N06; B12-M02F;
B12-M07; B12-M10A; B14-D07C

TECH

INSTRUMENTATION AND TESTING - Preferred Components: (I) comprises an electrode cartridge comprising a plurality of electrodes; and a main unit comprising a control unit, which is adapted to apply electrical energy to the electrodes when the electrodes are in vicinity of the skin, enabling ablation of stratum corneum in an area beneath the electrodes to generate at least one micro-channel. The electrode cartridge is adapted to generate a plurality of micro-channels of uniform shape and dimensions. The electrical energy is of radio frequency. T(1) is formulated in a dry form, semi-dry form, hydrogel and a solution. (B) is growth factors, hormones, cytokines, water-soluble drugs, antigens, antibodies, fragments and their analogs such as insulin, growth hormone (both preferred), proinsulin, follicle stimulating hormone, insulin like growth factor-1, insulin like growth factor-2, platelet derived growth factor, epidermal growth factor, fibroblast growth factors, nerve growth factor, transforming growth factors, tumor necrosis factor, calcitonin, parathyroid hormone, bone morphogenic protein, erythropoietin, hemopoietic growth factors, luteinizing hormone, glucagon, clotting factors, anticlotting factors, atrial natriuretic factor, lung surfactant, plasminogen activators, bombesin, thrombin, enkephalinase, relaxin A-chain, relaxin B-chain, prorelaxin, inhibin, activin, vascular endothelial growth factor, hormone receptors, growth factor receptors, integrins, protein A, protein D, rheumatoid factors, neurotrophic factors, CD proteins, osteoinductive factors, immunotoxins, interferons, colony stimulating factors, interleukins (ILs), superoxide dismutase, surface membrane proteins, T-cell receptors, decay accelerating factor, viral antigens, transport proteins, homing receptors, addressins, regulatory proteins, analogs, derivatives and their fragments. (II) further comprises at least one of a backing layer, an adhesive and a rate-controlling layer. The pharmaceutical composition further comprises at least one component such as protease inhibitors, stabilizers, anti-oxidants, buffering agents and preservatives.

POLYMERS - Preferred Composition: the polymeric matrix is hydrophilic biopolymers, hydrophilic synthetic polymers and/or derivatives. The biopolymer is collagens, carrageenans (both preferred), hydroxypropyl cellulose, carboxymethyl cellulose, hydroxyethyl cellulose, chitin, chitosan, alginates, gelatin, pectin, glycosaminoglycans (GAGs), proteoglycans, fibronectins or laminins. The hydrophilic synthetic polymer is polyethylene oxide (preferred), polyglycolic acid (PGA), polylactic acid (PLA), polypropylene oxide, polyoxyethylene-polyoxypropylene copolymers, polyvinylalcohol, polyethylene glycol or polyurethanes. (1)

comprises collagen and human growth hormone, collagen and human insulin, polyethylene oxide and human growth hormone, polyethylene oxide and human insulin, carrageenan and human growth hormone or carrageenan and human insulin.

L87 ANSWER 20 OF 28 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2004-420518 [39] WPIX
 CROSS REFERENCE: 2005-809984
 DOC. NO. CPI: C2004-157940 [39]
 TITLE: Composition useful for treating cancer, viral infection, bacterial infection, parasitic infection, inflammatory conditions, comprises construct having complement receptor 2 and modulator of complement activity
 DERWENT CLASS: B04; D16
 INVENTOR: HOLERS M V; TOMLINSON S
 PATENT ASSIGNEE: (MUSC-N) MUSC FOUND RES DEV; (COLS-C) UNIV COLORADO
 COUNTRY COUNT: 106

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2004045520	A2	20040603	(200439) *	EN	184 [31]	
AU 2003298650	A1	20040615	(200470)	EN		
EP 1569685	A2	20050907	(200559)	EN		
JP 2006512325	W	20060413	(200629)	JA	130	
CN 1756560	A	20060405	(200654)	ZH		A61K039-00

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004045520	A2	WO 2003-US36459	20031113
AU 2003298650	A1	AU 2003-298650	20031113
EP 1569685	A2	EP 2003-796403	20031113
EP 1569685	A2	WO 2003-US36459	20031113
JP 2006512325	W	WO 2003-US36459	20031113
JP 2006512325	W	JP 2004-553695	20031113
CN 1756560	A	CN 2003-80108789	20031113

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003298650	A1 Based on	WO 2004045520 A
EP 1569685	A2 Based on	WO 2004045520 A
JP 2006512325	W Based on	WO 2004045520 A

PRIORITY APPLN. INFO: US 2002-426676P 20021115

INT. PATENT CLASSIF.:

IPC ORIGINAL: A61K0038-00 [I,A]; A61K0039-395 [I,A]; A61P0001-00 [I,C];
 A61P0001-04 [I,A]; A61P0011-00 [I,A]; A61P0011-06 [I,A];
 A61P0013-00 [I,C]; A61P0013-12 [I,A]; A61P0015-00 [I,C];
 A61P0015-08 [I,A]; A61P0017-00 [I,A]; A61P0017-02 [I,A];
 A61P0019-00 [I,A]; A61P0019-02 [I,A]; A61P0021-00 [I,C];
 A61P0021-04 [I,A]; A61P0025-00 [I,A]; A61P0025-28 [I,A];
 A61P0027-00 [I,C]; A61P0027-02 [I,A]; A61P0029-00 [I,A];
 A61P0003-00 [I,C]; A61P0003-10 [I,A]; A61P0031-00 [I,C];
 A61P0031-04 [I,A]; A61P0031-06 [I,A]; A61P0031-10 [I,A];
 A61P0031-12 [I,A]; A61P0031-16 [I,A]; A61P0033-00 [I,A];

A61P0033-02 [I,A]; A61P0033-04 [I,A]; A61P0033-06 [I,A];
 A61P0033-12 [I,A]; A61P0035-00 [I,A]; A61P0035-02 [I,A];
 A61P0037-00 [I,A]; A61P0037-02 [I,A]; A61P0043-00 [I,A];
 A61P0005-00 [I,C]; A61P0005-14 [I,A]; A61P0007-00 [I,A];
 A61P0007-06 [I,A]; A61P0007-08 [I,A]; A61P0009-00 [I,A];
 A61P0009-10 [I,A]; C07K0014-435 [I,C]; C07K0014-47 [I,A];
 C07K0014-705 [I,A]; C07K0019-00 [I,A]; A61K0039-00 [I,A];
 A61K0039-395 [I,A]; C07K0014-00 [I,A]
 IPC RECLASSIF.: A61K0038-00 [N,A]; A61K0038-00 [N,C]; A61K0039-00 [I,A];
 A61K0039-00 [I,C]; A61K0039-395 [I,A]; A61K0039-395 [I,C]
 ; C07K0014-00 [I,A]; C07K0014-00 [I,C]; C07K0014-435
 [I,C]; C07K0014-705 [I,A]

BASIC ABSTRACT:

WO 2004045520 A2 UPAB: 20060203

NOVELTY - A composition (C1) comprising a construct, where the construct comprises complement receptor 2 (CR2) and a modulator of complement activity.

ACTIVITY - Cytostatic; Antiasthmatic; Antiinflammatory; Dermatological; Immunosuppressive; Antiarthritic; Antirheumatic; Vasotropic; Antidiabetic; Neuroprotective; Antiallergic; Gastrointestinal-Gen; Antiulcer; Antiviral; Antibacterial; Antiparasitic (claimed).

MECHANISM OF ACTION - Inhibitor or activator of complement activity (claimed). No biological data is given.

USE - (C1) is useful for treating a condition affected by complement in a subject which involves administering (C1) to the subject. The conditions is cancer chosen from lymphomas (Hodgkins and non-Hodgkins), B cell lymphoma, T cell lymphoma, myeloid leukemia, leukemias, mycosis fungoides, carcinomas, carcinomas of solid tissues, squamous cell carcinomas, adenocarcinomas, sarcomas, gliomas, blastomas, neuroblastomas, plasmacytomas, histiocytomas, melanomas, adenomas, hypoxic tumors, myelomas, AIDS-related lymphomas or sarcomas, metastatic cancers, bladder cancer, brain cancer, nervous system cancer, squamous cell carcinoma of head and neck, neuroblastoma/glioblastoma, ovarian cancer, skin cancer, liver cancer, melanoma, squamous cell carcinomas of the mouth, throat, larynx, and lung, colon cancer, cervical cancer, cervical carcinoma, breast cancer, epithelial cancer, renal cancer, genitourinary cancer, pulmonary cancer, esophageal carcinoma, head and neck carcinoma, hematopoietic cancers testicular cancer, colo-rectal cancers, prostatic cancer, or pancreatic cancer. The condition is a viral infection chosen from herpes simplex virus type-1, herpes simplex virus type2, cytomegalovirus, Epstein-Barr virus, Varicella-zoster virus, Human herpesvirus 6, human herpesvirus 7, human herpesvirus 8, variola virus, vesicular stomatitis virus, hepatitis a virus, hepatitis B virus, hepatitis c virus, hepatitis D virus, hepatitis E virus, rhinovirus, coronavirus, influenza virus A, etc. The condition is bacterial infection chosen from Mycobacterium tuberculosis, M.bovis, M.bovis strain BCG, BCG substrains, M.avium, M.intracellulare, M.africanum, M.kansasii, M.marinum, M.ulcerans, M.avium subspecies paratuberculosis, Nocardia asteroides, other Nocardia species, Legionella pneumophila, other Legionella species, Salmonella typhi, other Salmonella species, Shigella species, Yersinia pestis, Pasteurella haemolytica, P.multocida, other Pasteurella species, Actinobacillus pleuropneumoniae, Listeria monocytogenes, Listeria ivanovii, Brucella abortus, other Brucella species, Cowdria ruminantium, Chlamydia pneumoniae, C.trachomatis, C.psittaci, Coxiella burnetii, other Rickettsial species, etc. The condition is parasitic infection chosen from Toxoplasma gondii, Plasmodium falciparum, P.vivax, P.malariae, other Plasmodium species, Trypanosoma brucei, T.cruzi, Leishmania major, other Leishmania species, Schistosoma mansoni, other Schistosoma species, and Entamoeba histolytica. The condition is fungal infection chosen from Candida albicans, cryptococcus neoformans, Histoplasma capsulatum, Aspergillus fumigatus, Coccidioides immitis, Paracoccidioides brasiliensis, Blastomyces dermatidis, Pneumocystis carinii, Penicillium marneffii and Alternaria alternata. The condition is inflammatory condition

chosen from asthma, systemic lupus erythematosus, nephritis, rheumatoid arthritis, reactive arthritis, spondyloarthritis, systemic vasculitis, insulin-dependent diabetes mellitus, multiple sclerosis, experimental allergic encephalomyelitis, Sjogren's syndrome, graft versus host disease, inflammatory bowel disease including Crohn's disease, ulcerative colitis, and scleroderma. The subject is a mammal which is a human or mouse. (C1) comprising fusion protein that inhibits complement is useful for reducing complement mediated damage. (C1) comprising fusion protein that activates complement is useful for enhancing complement mediated damage. (All claimed.)

DESCRIPTION OF DRAWINGS - The drawing shows inhibition of complement mediated lysis by recombinant sCD59 and CD59 fusion proteins. MANUAL CODE: CPI:
B04-N08; B14-A01; B14-A02; B14-A04; B14-B02;

B14-C06; B14-C09B; B14-E08; B14-E10C; B14-F02; B14-G02A;
B14-G02C; B14-H01; B14-H01A; B14-H01B; B14-K01A; B14-N10;
B14-N16; B14-N17; B14-S01; B14-S04; D05-C12; D05-H17C

TECH

BIOTECHNOLOGY - Preferred Composition: In (C1), the construct is a fusion protein. The fusion protein inhibits complement. The modulator of complement activity comprises a complement inhibitor which is a **decay accelerating factor (DAF)** which comprises 518 or 495 amino acids sequence fully defined in the specification. The complement inhibitor is human CD59 which comprises 330 or 334 amino acid sequence fully defined in the specification. The complement inhibitor is CR1 which has 2048 amino acid sequence fully defined in the specification. The complement inhibitor is membrane cofactor protein (MCP) which has 378 amino acid sequence fully defined in the specification. The complement inhibitor is Crry which has 440 amino acid sequence fully defined in the specification. The complement inhibitor is murine CD59. In (C1), the fusion protein activates complement. The modulator of complement activity comprises complement activator which is human immunoglobulin (Ig)G1 which has a 232 amino acid sequence fully defined in the specification. (C1) comprises 510 amino acid sequence fully defined in the specification. The complement activator is human IgM which has 454 amino acid sequence fully defined in the specification. The complement activator is mouse IgG 3 which has 233 amino acid sequence fully defined in the specification. The complement activator is CVF which has 1620 amino acid sequence fully defined in the specification. The construct of (C1) is an immunoconjugate.

L87 ANSWER 21 OF 28 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2006523137 EMBASE Full-text
TITLE: Bap31 enhances the endoplasmic reticulum export and quality control of human class I MHC molecules.
AUTHOR: Ladasky J.J.; Boyle S.; Seth M.; Li H.; Pentcheva T.; Abe F.; Steinberg S.J.; Edidin M.
CORPORATE SOURCE: Dr. M. Edidin, Department of Biology, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218, United States. edidin@jhu.edu
SOURCE: Journal of Immunology, (1 Nov 2006) Vol. 177, No. 9, pp. 6172-6181. .
Refs: 57
ISSN: 0022-1767 CODEN: JOIMA3
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 026 Immunology, Serology and Transplantation
029 Clinical Biochemistry

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 22 Nov 2006

Last Updated on STN: 22 Nov 2006

ABSTRACT: The assembly of class I MHC molecules and their export from the endoplasmic reticulum (ER) is governed by chaperones and accessory proteins. We present evidence that the putative cargo receptor protein Bap31 participates in the transport and the quality control of human class I molecules. Transfection of the human adenocarcinoma cell line HeLa with yellow fluorescent protein-Bap31 chimeras increased surface levels of class I in a dose-dependent manner, by as much as 3.7-fold. The increase in surface class I resulted from an increase in the rate of export of newly synthesized class I molecules to the cell surface and from an increase in the stability of the exported molecules. We propose that Bap31 performs quality control on class I molecules in two distinct phases: first, by exporting peptide-loaded class I molecules to the ER/Golgi intermediate compartment, and second, by retrieving class I molecules that have lost peptides in the acidic post-ER environment. This function of Bap31 is conditional or redundant, because we find that Bap31 deficiency does not reduce surface class I levels. Overexpression of the Bap31 homolog, Bap29, decreases surface class levels in HeLa, indicating that it does not substitute for Bap31. Copyright .COPYRGT. 2006 by The American Association of Immunologists, Inc.

CONTROLLED TERM: Medical Descriptors:
 *major histocompatibility complex
 *endoplasmic reticulum
 protein analysis
 cell transport
 quality control
 protein assembly
 adenocarcinoma: ET, etiology
 dose response
 chimera
 cell surface
 Golgi complex
 gene overexpression
 human
 controlled study
 human cell
 article
 priority journal

CONTROLLED TERM: Drug Descriptors:
 *major histocompatibility antigen class 1: EC, endogenous compound
 *protein BAP31: EC, endogenous compound
 chaperone: EC, endogenous compound
 yellow fluorescent protein
 protein Bap29: EC, endogenous compound
 CD9 antigen: EC, endogenous compound
 decay accelerating factor: EC, endogenous compound
 CD59 antigen: EC, endogenous compound
 CD71 antigen: EC, endogenous compound
 Fas antigen: EC, endogenous compound
 CD147 antigen: EC, endogenous compound
 unclassified drug

CAS REGISTRY NO.: (decay accelerating factor) 99085-47-9

L87 ANSWER 22 OF 28 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 97072294 EMBASE Full-text

DOCUMENT NUMBER: 1997072294

TITLE: Tumour necrosis factor- α up-regulates decay-accelerating factor gene expression in human intestinal epithelial cells.

AUTHOR: Andoh A.; Fujiyama Y.; Sumiyoshi K.; Sakumoto H.; Okabe H.; Bamba T.

CORPORATE SOURCE: Dr. A. Andoh, Department of Internal Medicine, Shiga University of Medical Science, Seta-Tukinowa, Otsu 520-21, Japan

SOURCE: Immunology, (1997) Vol. 90, No. 3, pp. 358-363. .
Refs: 35
ISSN: 0019-2805 CODEN: IMMUAM

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 022 Human Genetics
026 Immunology, Serology and Transplantation
048 Gastroenterology

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 4 Apr 1997
Last Updated on STN: 4 Apr 1997

ABSTRACT: The increased expression of decay-accelerating factor (DAF) has been detected in intestinal epithelial cells at the inflamed mucosa. In this study, we examined the effects of tumour necrosis factor (TNF)- α on DAF expression in three intestinal epithelial cell lines. DAF mRNA expression was evaluated by Northern blot analysis, and DAF protein expression was analysed by biotin labelling and immunoprecipitation. TNF- α induced a marked increase in DAF mRNA and protein expression in HT-29, T84 and Caco-2 cells. In HT-29 cells, the effects of TNF- α on DAF mRNA accumulation were observed in a dose-dependent manner; DAF mRNA accumulation reached a maximum at 3-6 hr, and then gradually decreased. These effects of TNF- α required de novo protein synthesis. Messenger RNA stability studies suggested that TNF- α partially regulated DAF gene expression by a posttranscriptional mechanism. Moreover, the combination of TNF- α and interleukin (IL)-4 induced an additive increase in DAF mRNA accumulation in HT-29 and T84 cells. In human intestinal epithelial cells, TNF- α acts as a potent inducer of DAF mRNA expression, indicating an important role for TNF- α in the regulation of DAF expression at the inflamed mucosa.

CONTROLLED TERM: Medical Descriptors:
*gene expression
*intestine epithelium
adenocarcinoma
article
cell line
human
human cell
priority journal
Drug Descriptors:
*decay accelerating factor: EC, endogenous compound
*interleukin 4
*messenger rna: EC, endogenous compound
*tumor necrosis factor alpha

CAS REGISTRY NO.: (decay accelerating factor) 99085-47-9

L87 ANSWER 23 OF 28 JICST-EPlus COPYRIGHT 2007 JST on STN

ACCESSION NUMBER: 980280374 JICST-EPlus Full-text

TITLE: Expression of Membrane Cofactor Protein (CD46),
Decay Accelerating Factor (

INVEST CD55) and Homologous Restriction Factor 20 (CD59) in Human Gastric Mucosa and Their Changes in Cancerous Tissue.

AUTHOR: SETO N
 CORPORATE SOURCE: Kyoto Prefectural Univ. Medicine
 SOURCE: Kyoto Furitsu Ika Daigaku Zasshi (Journal of Kyoto Prefectural University of Medicine), (1998) vol. 107, no. 2, pp. 195-206. Journal Code: Z0618A (Fig. 6, Tbl. 2, Ref. 18)
 ISSN: 0023-6012
 PUB. COUNTRY: Japan
 DOCUMENT TYPE: Journal; Article
 LANGUAGE: English
 STATUS: New

ABSTRACT:

Membrane cofactor protein (MCP, CD46), decay accelerating ***factor*** (DAF, CD55) and homologous restriction factor of 20kDa (HRF20, CD59) are members of the complement regulatory proteins bound on the cell membranes which prevent the destruction of autologous cells by the attack of the complement system. These proteins exist in some organs and on some peripheral blood cells, however the phenotypes of these proteins are different among organs or cells in the individual. The aims of this study were to determine the expression of these proteins in the gastric mucosa and the phenotypic changes in cancerous tissue. Immunohistochemical studies revealed that MCP was stained on the basolateral membrane in epithelial cells. There was no difference in the localization of MCP between normal and cancerous epithelium. MCP on cancerous epithelium was stained in like manner to normal epithelium in 6 lesions (46%) and increased in 7 (54%) out of 13 cancerous lesions. DAF wasn't stained on normal gastric epithelium but stained more intensely on cancerous epithelial cells in 7 (54%) out of 13 lesions, especially in the poorly differentiated adenocarcinoma. HRF20 was stained on the basal membrane from the glandular body to the base and on the lateral and apical membrane from the surface to the glandular neck. HRF20 on cancerous epithelium was stained similarly to normal epithelium in 7 (54%), diminished in 2 (15%) and increased in 4 (31%) out of 13 lesions. Western blot analysis revealed MCP was expressed with some variations in molecular ***weight*** (MW) in gastric cancer. Thus the upregulation of DAF in the cancer cells may defend against autologous complement attack more effectively. Changes of MCP's MW may lead to the changes of inhibitory activity against the complement and also to the appearance of neo antigen, which may be useful in the targeting therapy as well as diagnosis. (author abst.)

CLASSIFICATION: GH04000D; GE02020C (616.3-006; 616-006.2)
 CONTROLLED TERM: membrane protein; gastric mucosa; gene expression; carcinogenesis; stomach tumor; pathological state; complement(immunology); human(primates); bioactive factor
 BROADER TERM: protein; stomach; gastrointestinal duct; digestive organ; mucosa; epithelial tissue; animal tissue; biomedical tissue; organization; histomembrane; membrane and film; molecular genetic phenomenon; genetic phenomenon; phenomenon; tumor process; process; stomach disease; gastrointestinal disease; digestive system disease; disease; digestive system tumor; tumor; factor

L87 ANSWER 24 OF 28 PASCAL COPYRIGHT 2007 INIST-CNRS. ALL RIGHTS RESERVED.
 on STN DUPLICATE 5

ACCESSION NUMBER: 1997-0144601 PASCAL Full-text
 COPYRIGHT NOTICE: Copyright .COPYRGT. 1997 INIST-CNRS. All rights reserved.

had TITLE (IN ENGLISH): Complement-regulatory proteins in ovarian malignancies
 AUTHOR: BJORGE L.; HAKULINEN J.; WAHLSTROM T.; MATTE R.; MERI S.
 CORPORATE SOURCE: Department of Bacteriology and Immunology, Haartman Institute, University of Helsinki, Helsinki, Finland; Department of Microbiology and Immunology, The Gade Institute, University of Bergen, Bergen, Norway; Department of Obstetrics and Gynecology, University Central Hospital, Helsinki, Finland
 SOURCE: International journal of cancer, (1997), 70(1), 14-25, 21 refs.
 ISSN: 0020-7136 CODEN: IJCNW
 DOCUMENT TYPE: Journal
 BIBLIOGRAPHIC LEVEL: Analytic
 COUNTRY: United States
 LANGUAGE: English
 AVAILABILITY: INIST-13027, 354000062296120030
 ABSTRACT: Ovarian cancer has features that makes it well-suited for MAb adjuvant immunotherapy. Several of the MAbs used in clinical trials mediate cancer cell destruction by activation of complement (C). In this study, therefore, we examined the ability of ovarian-tumor cells to resist C attack. We found that the C regulators membrane cofactor protein (MCP, CD46) and protectin (CD59) were strongly expressed in the tumor cells in all 28 benign and malignant tumors examined. **Decay-accelerating factor (DAF; CD55)** was more heterogeneously expressed, and only 75% of the tumors exhibited a moderate amount of DAF in the tumor cells. In adenoma cells, CD59 and DAF were preferentially located apically, while in **adenocarcinoma** cells they were expressed also at the basolateral cell surface. The ovarian-carcinoma cell lines SK-OV-3, Caov-3, SW626 and PA-1 expressed both the 58-and the 68-kDa isoforms of MCP. DAF was present as a glycosyl-phosphatidylinositol (GP 1)-anchored 70- kDa **glycoprotein**. The surface-expression level of DAF varied, and correlated with the vulnerability of the cells to C-mediated lysis. CD59 was expressed as a GP1-linked 19- to 25- kDa protein exhibiting multiple glycosylation variants. The surface expression of CD59 correlated with the amount of the main 1.9 + 2.1-kb CD59 mRNA transcripts. Neutralization of CD59 with an anti-CD59 MAb significantly enhanced C-mediated killing of the cell lines. Low expression of C regulators on the PA-1 teratocarcinoma cell line was associated with high sensitivity to C lysis. Thus, the expression of C regulators on malignant ovarian cells may constitute a tumor escape mechanism, and is a critical parameter to be examined when MAb therapy is being considered. CLASSIFICATION CODE: 002B20C02; Life sciences; Medical sciences;
 CONTROLLED TERM: Reproduction; Gynecology, Genital system; Oncology **Adenocarcinoma**; Malignant teratoma; Ovary; Complement; Membrane protein; Regulation(control); Phenotype; Gene expression; Exploration; Cytotoxicity; Human; In vivo; In vitro; Established cell line; Membrane cofactor protein; **Decay accelerating factor**
 BROADER TERM: Malignant tumor; Female genital diseases; Ovarian diseases
 L87 ANSWER 25 OF 28 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
 ACCESSION NUMBER: 2003:521646 BIOSIS Full-text
 DOCUMENT NUMBER: PREV200300510585
 TITLE: Antiadhesive role of apical **decay-accelerating factor (CD55)** in human neutrophil transmigration across mucosal epithelia.
 AUTHOR(S): Lawrence, Donald W.; Bruyninckx, Walter J.; Louis, Nancy A.; Lublin, Douglas M.; Stahl, Gregory L.; Parkos, Charles A.; Colgan, Sean P. [Reprint Author]

CORPORATE SOURCE: Center for Experimental Therapeutics and Reperfusion Injury, Brigham and Women's Hospital, Harvard Medical School, 20 Shattuck St., Boston, MA, 02115, USA
colgan@zeus.bwh.harvard.edu

SOURCE: Journal of Experimental Medicine, (October 6 2003) Vol. 198, No. 7, pp. 999-1010. print.
ISSN: 0022-1007 (ISSN print).

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 5 Nov 2003
Last Updated on STN: 5 Nov 2003

ABSTRACT: Neutrophil migration across mucosal epithelium during inflammatory episodes involves the precise orchestration of a number a cell surface molecules and signaling pathways. After successful migration to the apical epithelial surface, apically localized epithelial proteins may serve to retain PMN at the luminal surface. At present, identification of apical epithelial ligands and their PMN counter-receptors remain elusive. Therefore, to define the existence of apical epithelial cell surface proteins involved in PMN-epithelial interactions, we screened a panel of antibodies directed against epithelial plasma membranes. This strategy identified one antibody (OE-1) that both localized to the apical cell membrane and significantly inhibited PMN transmigration across epithelial monolayers. Microsequence analysis revealed that OE-1 recognized human decay-accelerating
factor (DAF, CD55). DAF is a highly glycosylated, 70-80-
kD, glycosylphosphatidylinositol-linked protein that functions predominantly as an inhibitor of autologous complement lysis. DAF suppression experiments using antisense oligonucleotides or RNA interference revealed that DAF may function as an antiadhesive molecule promoting the release of PMN from the luminal surface after transmigration. Similarly, peptides corresponding to the antigen recognition domain of OE-1 resulted in accumulation of PMN on the apical epithelial surface. The elucidation of DAF as an apical epithelial ligand for PMN provides a target for novel anti-inflammatory therapies directed at quelling unwanted inflammatory episodes.

CONCEPT CODE: Cytology - Animal 02506
Cytology - Human 02508
Biochemistry studies - Nucleic acids, purines and pyrimidines 10062
Biophysics - Membrane phenomena 10508
Blood - Blood and lymph studies 15002
Blood - Blood cell studies 15004
Immunology - General and methods 34502

INDEX TERMS: Major Concepts
Immune System (Chemical Coordination and Homeostasis);
Membranes (Cell Biology)

INDEX TERMS: Parts, Structures, & Systems of Organisms
epithelial plasma membranes; mucosal epithelium;
neutrophil: blood and lymphatics, immune system,
transmigration

INDEX TERMS: Chemicals & Biochemicals
OE-1 antibody; antisense oligonucleotides; apical
decay-accelerating factor [CD55, DAF]: antiadhesive role;
glycosylphosphatidylinositol-linked protein

INDEX TERMS: Methods & Equipment
RNA interference: genetic techniques, laboratory
techniques; microsequence analysis: genetic techniques,
laboratory techniques

ORGANISM: Classifier
Cricetidae 86310
Super Taxa

Rodentia; Mammalia; Vertebrata; Chordata; Animalia
 Organism Name
 CHO cell line (cell line): Chinese hamster ovary cells
 Taxa Notes
 Animals, Chordates, Mammals, Nonhuman Vertebrates,
 Nonhuman Mammals, Rodents, Vertebrates

ORGANISM:

Classifier
 Hominidae 86215
 Super Taxa
 Primates; Mammalia; Vertebrata; Chordata; Animalia
 Organism Name
 CaCo2 cell line (cell line): human colona
adenocarcinoma cells
 HMVEC cell line (cell line): human microvascular
 endothelial cells
 KB cell line (cell line): human squamous cell mouth
 carcinoma cells
 OKF6 cell line (cell line): human oral mucosal
 epithelial cells
 T84 cell line (cell line): human colon
adenocarcinoma cells
 Taxa Notes
 Animals, Chordates, Humans, Mammals, Primates,
 Vertebrates

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ACCESSION NUMBER: 2005:882482 SCISEARCH Full-text

THE GENUINE ARTICLE: 954HZ

TITLE: Helicobacter pylori eradication decreases the expression
 of glycosylphosphatidylinositol-anchored complement
 regulators, **decay-accelerating**
factor and homologous restriction factor 20, in
 human gastric epithelium

AUTHOR: Joh T; Sasaki M (Reprint); Kataoka H; Tanida S; Itoh K;
 Kondo Y; Ogasawara N; Oshima T; Okada N; Ohara H; Sano H;
 Nakao H; Sobue S; Itoh M

CORPORATE SOURCE: Nagoya City Univ, Grad Sch Med Sci, Dept Internal Med &
 Bioregulat, Mizuho Ku, 1 Kawasumi, Nagoya, Aichi 467,
 Japan (Reprint); Nagoya City Univ, Grad Sch Med Sci, Dept
 Internal Med & Bioregulat, Mizuho Ku, Nagoya, Aichi 467,
 Japan; Nagoya City Univ, Grad Sch Med Sci, Dept Mol Biol,
 Nagoya, Aichi, Japan
 msasaki@med.nagoya-cu.ac.jp

COUNTRY OF AUTHOR: Japan

SOURCE: JOURNAL OF GASTROENTEROLOGY AND HEPATOLOGY, (SEP 2005)
 Vol. 20, No. 9, pp. 1344-1351.
 ISSN: 0815-9319.

PUBLISHER: BLACKWELL PUBLISHING, 9600 GARSINGTON RD, OXFORD OX4 2DQ,
 OXON, ENGLAND.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 37

ENTRY DATE: Entered STN: 8 Sep 2005

Last Updated on STN: 8 Sep 2005

ABSTRACT:

Background: It has previously been reported that there is a strong
 correlation between the expression of glycosylphosphatidylinositol
 (GPI)-anchored complement membrane inhibitor in gastric epithelium and the
 severity of inflammation of gastric mucosa. To investigate the regulation of

complement activity in gastric epithelium during *Helicobacter pylori* (*H. pylori*)-associated gastritis, the expression of GPI-anchored complement membrane inhibitors, decay-accelerating factor (DAF) and 20-kDa homologous restriction factor 20 (HRF20), and membrane cofactor protein (MCP), which is a transmembrane protein, were evaluated after removal of the *H. pylori* stimulus. Furthermore, the expression of the complement fragment, C3c, was also investigated.

Methods: Forty-six patients with epigastric symptoms and endoscopically confirmed peptic ulcer or gastritis who had *H. pylori* infection of the gastric mucosa were enrolled in the present study. Biopsy specimens were obtained from the gastric antrum and corpus 1 month before and after eradication. *Helicobacter pylori* infection was determined by the rapid urease test, histology, and culture before eradication, and by histology, culture, and urea breath test after eradication. Gastric biopsy specimens obtained before and after eradication were evaluated for infiltration by neutrophils and mononuclear cells. The expression of complement membrane inhibitors, DAF, HRF20, and MCP and that of the main complement fragment, C3c, was immunohistochemically evaluated.

Results: One month after the eradication of *H. pylori*, the infiltration by neutrophils and mononuclear cells in the gastric mucosa decreased significantly ($P < 0.0001$) as compared with that before eradication. The expression of DAF, HRF20, and C3c on gastric mucosal epithelium also significantly decreased in both the antrum and the corpus ($P < 0.05$) 1 month after eradication. However, no change was observed in the expression of MCP.

Conclusions: The decrease in the expression of GPI-anchored complement regulator and the complement after removal of a chronic microbial stimulus suggests that the gastric epithelium appears to undergo an aggressive stress of complement during *H. pylori* infection. Conclusively, DAF and HRF20 may play an important protective role against complement-mediated damage induced by chronic microbial stimuli in such a pathological condition. (C) 2005 Blackwell Publishing Asia Pty Ltd.

CATEGORY: GASTROENTEROLOGY & HEPATOLOGY

SUPPLEMENTARY TERM: C3c; complement activation; DAF; eradication; *Helicobacter pylori*; HRF20

SUPPL. TERM PLUS: MEMBRANE COFACTOR PROTEIN; ADENOCARCINOMA
CELL-LINE; ENDOTHELIAL-CELLS; FACTOR DAF; C-3 CONVERTASES;
CD59; PHOSPHOLIPASE; C5B-9; MICE

REFERENCE(S) :

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	ARN PG (RPG)	Referenced Work (RWK)
BALDWIN W M	2003	25	181	SPRINGER SEMIN IMMUN
BERSTAD A E	1998	42	522	GUT
BERSTAD A E	1997	40	196	GUT
BERSTAD A E	2001	120	1108	GASTROENTEROLOGY
BHAKDI S	1988	74	459	CLIN EXP IMMUNOL
BJORGE L	1996	42	185	CANCER IMMUNOL IMMUN
BJORGE L	1995	41	350	SCAND J IMMUNOL
BORN J	1986	59	139	IMMUNOLOGY
BROWN E J	1983	6	349	SPRINGER SEMIN IMMUN
CHMIELA M	1997	40	20	GUT
DAVITZ M A	1987	715	111	ACTA MED SCAND S
DAVITZ M A	1986	163	1150	J EXP MED
DORRELL N	1999	117	1098	GASTROENTEROLOGY
FUJITA T	1987	166	1221	J EXP MED
INOUE T	2002	55	193	J CLIN PATHOL-MOL PA
ISMAIL H F	2003	71	7140	INFECT IMMUN
KAWANO M	2000	48	367	ARCH IMMUNOL THER EX
KINOSHITA T	1991	12	291	IMMUNOL TODAY
KOOYMAN D L	1995	269	89	SCIENCE

MCNEAPNEY T	1989	84	538	J CLIN INVEST
MEDOF M E	1987	165	848	J EXP MED
MEDOF M E	1986	25	6740	BIOCHEMISTRY-US
MERI S	1993	23	2511	EUR J IMMUNOL
MIWA T	2001	1	445	INT IMMUNOPHARMACOL
MOUTABARRIK A	1993	12	167	LYMPHOKINE CYTOK RES
NICHOLSONWELLER A	1982	129	184	J IMMUNOL
NOSE M	1990	70	145	IMMUNOLOGY
OKADA N	1989	1	205	INT IMMUNOL
OSHIMA T	2000	164	1078	J IMMUNOL
RAUTEMAA R	2001	120	470	GASTROENTEROLOGY
ROKITA E	1998	178	1521	J INFECT DIS
ROLLINS S A	1990	144	3478	J IMMUNOL
SASAKI M	1998	33	554	HISTOPATHOLOGY
SEYA T	1986	163	837	J EXP MED
SJUNNESSON H	2001	30	167	FEMS IMMUNOL MED MIC
SOHN J H	2000	41	4195	INVEST OPHTH VIS SCI
VAKEVA A	1994	82	28	IMMUNOLOGY

L87 ANSWER 27 OF 28 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER: 1997:813137 SCISEARCH Full-text

THE GENUINE ARTICLE: YD878

TITLE: Expression of the complement regulatory proteins
decay accelerating factor
(DAF, CD55), membrane cofactor protein (MCP, CD46) and CD59 in the normal human uterine cervix and in premalignant and malignant cervical disease

AUTHOR: Simpson K L (Reprint); Jones A; Norman S; Holmes C H

CORPORATE SOURCE: UNIV BRISTOL, ST MICHAELS HOSP, DEPT CLIN MED, DIV OBSTET & GYNAECOL, BRISTOL BS2 8EG, AVON, ENGLAND

COUNTRY OF AUTHOR: ENGLAND

SOURCE: AMERICAN JOURNAL OF PATHOLOGY, (NOV 1997) Vol. 151, No. 5, pp. 1455-1467.
ISSN: 0002-9440.

PUBLISHER: AMER SOC INVESTIGATIVE PATHOLOGY, INC, 428 EAST PRESTON ST, BALTIMORE, MD 21202-3993.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE; CLIN

LANGUAGE: English

REFERENCE COUNT: 51

ENTRY DATE: Entered STN: 1997

Last Updated on STN: 1997

ABSTRACT:

The membrane-bound complement regulators **decay- ***accelerating*** factor** (DAF, CD55), membrane cofactor protein (MCP, CD46), and CD59 are broadly expressed proteins that act together to protect host tissues from autologous complement. Comparison of expression profiles of these proteins between normal and pathological tissues could reveal a mechanism by which tumor cells evade complement-mediated killing. Expression of the regulators was therefore examined in the normal human uterine cervix, in cervical intraepithelial neoplasia (CIN; n = 23), and in cervical squamous carcinomas (n = 6). DAF and MCP were reciprocally expressed in normal ectocervical epithelium. MCP was confined predominantly to the basal and parabasal layers with more extensive expression in metaplastic squamous epithelium. An apparent expansion in MCP expression was observed in more severe premalignant lesions whereas cervical carcinomas were uniformly MCP positive. By contrast, DAF expression appeared unaltered in premalignant lesions and variable in carcinomas. However, increased DAF was observed in stromal cells directly adjacent to infiltrating tumor cells. A low

molecular weight DAF-product was detected in tumors, and preliminary evidence suggests this may be derived from stromal cells, Overall changes in expression of C3 convertase regulators in both the stromal and epithelial compartments may be important for evasion of immune surveillance in cervical cancer.

CATEGORY: PATHOLOGY
 SUPPL. TERM PLUS: SIGNAL-TRANSDUCING MOLECULE; ADENOCARCINOMA
 CELL-LINE; ENDOTHELIAL-CELLS; FETOMATERNAL INTERFACE;
 HOMOLOGOUS COMPLEMENT; MEASLES-VIRUS; HUMAN TISSUES;
 RECEPTOR; SYSTEM; IDENTIFICATION

REFERENCE(S) :

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	ARN PG (RPG)	Referenced Work (RWK)
ATKINSON J P	1987	8	212	IMMUNOL TODAY
BERGELSON J M	1994	91	6245	P NATL ACAD SCI USA
BJORGE L	1996	42	185	CANCER IMMUNOL IMMUN
BJORGE L	1997	70	14	INT J CANCER
BJORGE L	1995	41	350	SCAND J IMMUNOL
BORA N S	1991	146	2821	J IMMUNOL
BRYANT R W	1991	147	1856	J IMMUNOL
CERVONI F	1993	151	939	J IMMUNOL
CHEUNG N K V	1988	81	1122	J CLIN INVEST
CINEK T	1992	149	2262	J IMMUNOL
CUI W	1994	8	A765	FASEB J
DAVIS L S	1988	141	2246	J IMMUNOL
DORIG R E	1993	75	295	CELL
FLETCHER A	1992	75	507	IMMUNOLOGY
HOLMES C H	1992	22	1579	EUR J IMMUNOL
HOLMES C H	1990	144	3099	J IMMUNOL
JENSEN T S	1995	34	1	AM J REPROD IMMUNOL
KINOSHITA T	1991	12	291	IMMUNOL TODAY
KORTY P E	1991	146	4092	J IMMUNOL
KUMAR S	1993	53	348	CANCER RES
LAEMMLI U K	1970	227	680	NATURE
LISZEWSKI M K	1994	269	10776	J BIOL CHEM
LUBLIN D M	1989	7	35	ANNU REV IMMUNOL
MCNEARNEY T	1989	84	538	J CLIN INVEST
MEDOF M E	1987	165	848	J EXP MED
MERI S	1990	71	1	IMMUNOLOGY
MERI S	1991	65	532	LAB INVEST
NANICHE D	1993	67	6025	J VIROL
NIEHANS G A	1996	149	129	AM J PATHOL
NOSE M	1990	70	145	IMMUNOLOGY
NOWICKI B	1993	178	2115	J EXP MED
OGLESBY T J	1996	246	78	ANAT REC
OKADA N	1995	92	2489	P NATL ACAD SCI USA
PESANDO J M	1987	19	235	HUM IMMUNOL
PRICE R J	1979	32	61	FERTIL STERIL
ROLLINS S A	1991	146	2345	J IMMUNOL
RUSSELL S M	1992	22	1513	EUR J IMMUNOL
SAYAMA K	1992	127	1	BRIT J DERMATOL
SAYAMA K	1991	96	61	J INVEST DERMATOL
SEYA T	1989	264	581	BIOCHEM J
SEYA T	1990	145	238	J IMMUNOL
SHIBATA T	1991	147	3901	J IMMUNOL
SHINOURA N	1994	86	143	CANCER LETT
SIMPSON K L	1993	80	183	IMMUNOLOGY
SIMPSON K L	1994	81	452	IMMUNOLOGY
SMITH N C	1974	252	302	NATURE

SPARROW R I	1983	7	1	HUM IMMUNOL
MUNDERLAND C A	1984	44	4406	CANCER RES
TOWBIN H	1979	76	4350	P NATL ACAD SCI USA
TSUJI S	1993	152	1404	J IMMUNOL
YAMAKAWA M	1994	73	2808	CANCER

L87 ANSWER 28 OF 28 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER: 1994:452006 SCISEARCH Full-text

THE GENUINE ARTICLE: NX261

TITLE: EXPRESSION AND FUNCTION OF CD59 ON COLONIC
ADENOCARCINOMA CELLS

AUTHOR: BJORGE L (Reprint); VEDELER C A; ULVESTAD E; MATRE R

CORPORATE SOURCE: GADE INST, DEPT MICROBIOL & IMMUNOL, ARMAUER HANSEN BLDG,
N-5021 BERGEN, NORWAY (Reprint); UNIV BERGEN, BROEGELMANN
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NEUROL, N-5014 BERGEN, NORWAY

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FILE SEGMENT: LIFE

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ABSTRACT:

The expression and function of CD59, a 19-25 kDa membrane ***glycoprotein*** that inhibits formation of the membrane attack complex of complement, was analyzed on normal and malignant human colonic epithelial cells. Analysis by immuno-fluorescence demonstrated a weak apical expression of CD59 on normal intestinal epithelium, with an increased expression on ***adenocarcinoma*** cells. The expression of CD59 was greatest on tumor cells with poor differentiation. The functional activity of CD59 on human ***adenocarcinoma*** cells was investigated using the colonic ***adenocarcinoma*** cell line HT29. CD59 on HT29 cells was glycosyl-phosphatidylinositol-linked, and had a molecular mass of 19-25 ***kDa***. HT29 cells expressed approximately four times more CD59 than leukocytes, and showed a high resistance to antibody-dependent complement-mediated lysis. Blocking of CD59 with divalent antigen-binding F(ab')(2) fragments of the anti-CD59 monoclonal antibody 1F5 resulted in a dose-dependent increase in complement-mediated lysis, suggesting that CD59 may be of importance in protecting colonic adenocarcinoma cells against complement-mediated cytolysis.

CATEGORY: IMMUNOLOGY

SUPPLEMENTARY TERM: COMPLEMENT; CD59; HUMAN COLORECTAL ADENOCARCINOMAS

SUPPL. TERM PLUS: DECAY-ACCELERATING FACTOR;
MEMBRANE ATTACK COMPLEX; HUMAN-ERYTHROCYTE MEMBRANE;
NORMAL HUMAN TISSUES; TRANSMEMBRANE CHANNELS; HOMOLOGOUS
COMPLEMENT; INHIBITING PROTEIN; EPITHELIAL-CELLS;
TUMOR-CELLS; COFACTOR

REFERENCE(S):

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	ARN PG (RPG)	Referenced Work (RWK)
ARULANANDAM, A R N	1993	177	1439	J EXP MED
BJORGE, L	1993	36	233	IMMUNOL LETT

24	BROOFMANS, E A	1992	22	791	EUR J IMMUNOL
	CHEUNG, N K V	1988	81	1122	J CLIN INVEST
	DAVIES, A	1989	170	637	J EXP MED
	DECKERT, M	1992	22	2943	EUR J IMMUNOL
	DECKERT, M	1992	148	672	J IMMUNOL
	FEARON, D T	1979	76	5867	P NATL ACAD SCI USA
	HOLGUIN, M H	1989	184	7	J CLIN INVEST
	HOLMES, C H	1992	22	1579	EUR J IMMUNOL
	IRIE, K	1974	186	454	SCIENCE
	JOHNSTONE, R W	1993	79	341	IMMUNOLOGY
	KUMAR, S	1993	53	348	CANCER RES
	LAEMMLI, U K	1970	227	680	NATURE
	LISANTI, M P	1990	15	113	TRENDS BIOCHEM SCI
	LUBLIN, D M	1991	174	35	J EXP MED
	MERI, S	1990	71	1	IMMUNOLOGY
	MERI, S	1991	65	532	LAB INVEST
	MORGAN, B P	1992	282	409	BIOCHEM J
	MULLEREBERHARD, H J	1985		147	COMPLEMENT
	NICHOLSONWELLER, A	1982	129	184	J IMMUNOL
	NOSE, M	1990	70	145	IMMUNOLOGY
	OKADA, N	1989	1	205	INT IMMUNOL
	OLD, L J	1981	41	361	CANCER RES
	PANNEERSELVAM, M	1986	136	2534	J IMMUNOL
	PARHAM, P	1983	131	2895	J IMMUNOL
	RATNOFF, W D	1992	87	415	CLIN EXP IMMUNOL
	ROONEY, I A	1991	83	251	CLIN EXP IMMUNOL
	ROONEY, I A	1992	76	541	IMMUNOLOGY
	SCHONERMARK, S	1986	136	1772	J IMMUNOL
	SEYA, T	1986	163	837	J EXP MED
	SEYA, T	1990	145	238	J IMMUNOL
	SIMS, P J	1989	264	19228	J BIOL CHEM
	STEFANOVA, I	1989	26	153	MOL IMMUNOL
	SUGITA, Y	1988	104	633	J BIOCH
	TANDON, N	1992	75	372	IMMUNOLOGY
	TARTAKOFF, A M	1992	17	470	TRENDS BIOCHEM SCI
	TERACHI, T	1991	51	2521	CANCER RES
	VLOCK, D R	1989	49	1361	CANCER RES
	WALSH, L A	1992	40	213	TISSUE ANTIGENS
	ZALMAN, L S	1986	83	6975	P NATL ACAD SCI USA

FILE 'HOME' ENTERED AT 17:03:23 ON 17 JAN 2007

SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 14:56:16 ON 17 JAN 2007)

FILE 'CAPLUS' ENTERED AT 14:56:31 ON 17 JAN 2007

L1 48 SEA ABB=ON VOLLMERS H?/AU
 L2 5844 SEA ABB=ON MUELLER HERMELINK H?/AU OR MUELLER H?/AU OR
 HERMELINK H?/AU
 L3 25 SEA ABB=ON L1 AND L2
 L4 362 SEA ABB=ON CD55/OBI OR CD 55/OBI
 L5 2 SEA ABB=ON L3 AND L4
 D SCAN
 L6 21213 SEA ABB=ON CARCINOMA#/OBI (L) ADENO/OBI OR ADENOCARCINOMA#/OBI
 L7 4 SEA ABB=ON 23132/OBI
 L8 0 SEA ABB=ON L4 AND L7
 L9 4 SEA ABB=ON (L1 OR L2) AND L7
 D SCAN
 L10 6 SEA ABB=ON L4 AND L6

FILE 'REGISTRY' ENTERED AT 15:01:37 ON 17 JAN 2007

L11 1 SEA ABB=ON 99085-47-9

FILE 'REGISTRY' ENTERED AT 15:01:58 ON 17 JAN 2007

D IDE

FILE 'CAPLUS' ENTERED AT 15:02:41 ON 17 JAN 2007

L12 967 SEA ABB=ON DECAY-ACCELERATING FACTOR/OBI
 L13 1086 SEA ABB=ON L11
 L14 18 SEA ABB=ON L6 AND (L4 OR L12 OR L13)
 L15 12 SEA ABB=ON L6 AND L12
 L16 16 SEA ABB=ON L6 AND L13
 L17 8 SEA ABB=ON L6 (L) (L12 OR L13)
 L18 12 SEA ABB=ON L6 AND L12 AND L13
 D QUE
 L19 3 SEA ABB=ON L18 NOT (L5 OR L9 OR L10 OR L17)
 L20 114772 SEA ABB=ON GLYCOPROTEIN#/OBI
 L21 177 SEA ABB=ON PROTEIN#/OBI (L) GLYCO/OBI
 D SCAN L19
 L22 6 SEA ABB=ON L6 AND (L20 OR L21) AND (L12 OR L13)

FILE 'MEDLINE' ENTERED AT 15:07:57 ON 17 JAN 2007

L23 674 SEA ABB=ON MUELLER HERMELINK H?/AU OR MUELLER H?/AU OR
 HERMELINK H?/AU
 L24 50 SEA ABB=ON VOLLMERS H?/AU
 L25 1 SEA ABB=ON L23 AND L24
 D TRIAL
 L26 1166 SEA ABB=ON ANTIGENS, CD55/CT
 L27 53324 SEA ABB=ON GLYCOPROTEINS/CT
 L28 203676 SEA ABB=ON ADENOCARCINOMA+NT/CT
 L29 24 SEA ABB=ON 23132
 L30 393194 SEA ABB=ON CELL LINE+NT/CT
 L31 3 SEA ABB=ON L29 AND (L30 OR L28)
 L32 0 SEA ABB=ON L26 AND L29
 D TRIAL L31 1-3
 D KWIC L31 1-3
 L33 5 SEA ABB=ON L26 AND L28 AND L30
 L34 16 SEA ABB=ON L26 AND L28
 L35 0 SEA ABB=ON L26 AND L28 AND L27

L36 11 SEA ABB=ON L34 NOT (L33 OR L25)
 D TRIAL 1-11
 D QUE
 D TRIAL 1-11

FILE 'STNGUIDE' ENTERED AT 15:26:01 ON 17 JAN 2007

D QUE
 D QUE L34

FILE 'EMBASE' ENTERED AT 15:28:33 ON 17 JAN 2007

L37 53 SEA ABB=ON VOLLMERS H?/AU
 L38 896 SEA ABB=ON MUELLER HERMELINK H?/AU OR MUELLER H?/AU OR
 HERMELINK H?/AU
 E CD55/CT
 E E3+ALL
 E E2+ALL
 L39 1317 SEA ABB=ON DECAY ACCELERATING FACTOR/CT
 L40 5 SEA ABB=ON 23132?
 E ADENOCARCINOMA/CT
 E E3+ALL
 L41 16843 SEA ABB=ON ADENOCARCINOMA/CT
 E CELL LINE+ALL/CT
 L42 42527 SEA ABB=ON CELL LINE/CT
 L43 9850 SEA ABB=ON TUMOR CELL LINE/CT
 E GLYCOPROTEIN/CT
 E E3+ALL
 L44 217084 SEA ABB=ON GLYCOPROTEIN+NT/CT
 L45 27881 SEA ABB=ON GLYCOPROTEIN/CT
 L46 8 SEA ABB=ON (L37 AND L38) OR ((L37 OR L38) AND L39)
 D TRIAL 1-8

FILE 'STNGUIDE' ENTERED AT 16:30:00 ON 17 JAN 2007

FILE 'EMBASE' ENTERED AT 16:30:41 ON 17 JAN 2007

L47 3 SEA ABB=ON L39 AND L41
 L48 7 SEA ABB=ON L39 AND (L42 OR L43) AND L44
 L49 0 SEA ABB=ON L39 AND (L42 OR L43) AND L45
 D TRIAL L48 1-7
 D HS

FILE 'WPIX' ENTERED AT 16:31:44 ON 17 JAN 2007

L50 14 SEA ABB=ON VOLLMERS H?/AU
 L51 2606 SEA ABB=ON MUELLER HERMELINK H?/AU OR MUELLER H?/AU OR
 HERMELINK H?/AU
 L52 119 SEA ABB=ON CD55/BI, ABEX OR CD 55/BI, ABEX OR DECAY ACCELERATING
 FACTOR/BI, ABEX
 L53 1 SEA ABB=ON (L50 AND L51) OR ((L50 OR L51) AND L52)
 D TRIAL
 D BIB
 L54 0 SEA ABB=ON MUELLER-HERMELINK H?/AU
 D TRIAL L53

FILE 'STNGUIDE' ENTERED AT 16:34:14 ON 17 JAN 2007

FILE 'WPIX' ENTERED AT 16:35:04 ON 17 JAN 2007

E B04-N06+ALL/MC
 E B11-C08E+ALL/MC
 E B12-K04A1+ALL/MC
 E D05-H09+ALL/MC
 E D05-H13+ALL/MC

FILE 'EMBASE' ENTERED AT 16:36:07 ON 17 JAN 2007

L55 0 SEA ABB=ON L39 AND L40

FILE 'WPIX' ENTERED AT 16:36:21 ON 17 JAN 2007

L56 3675 SEA ABB=ON B04-N06/MC OR C04-N06/MC
 L57 6999 SEA ABB=ON GLYCOPROTEIN#/BI,ABEX OR GLYCO PROTEIN#/BI,ABEX
 L58 3007 SEA ABB=ON ADENOCARCINOMA#/BI,ABEX OR ADENO/BI,ABEX (A) CARCINOM
 A#/BI,ABEX
 L59 5 SEA ABB=ON 23132?/BI,ABEX
 L60 4 SEA ABB=ON L52 AND L58
 L61 1 SEA ABB=ON L52 AND L59
 L62 20 SEA ABB=ON L52 AND (L56 OR L57)
 L63 220303 SEA ABB=ON MW/BI,ABEX OR MOL?/BI,ABEX (W) WEIGHT/BI,ABEX OR
 KDA/BI,ABEX OR DALTON#/BI,ABEX OR KILODALTON#/BI,ABEX OR
 KD/BI,ABEX
 L64 2 SEA ABB=ON L62 AND L63
 L65 132265 SEA ABB=ON 82/BI,ABEX OR 82000/BI,ABEX
 L66 2 SEA ABB=ON (L65 OR L63) AND L62

FILE 'STNGUIDE' ENTERED AT 16:40:18 ON 17 JAN 2007

FILE 'JICST-EPLUS, PASCAL, BIOTECHNO, BIOSIS, ESBIODBASE, BIOTECHDS,
 LIFESCI, CONFSCI, DISSABS, BIOENG, SCISEARCH' ENTERED AT 16:42:21 ON 17
 JAN 2007

L67 306 SEA ABB=ON VOLLMERS H?/AU
 L68 10926 SEA ABB=ON MUELLER HERMELINK H?/AU OR MUELLER H?/AU OR
 HERMELINK H?/AU
 L69 7655 SEA ABB=ON CD55 OR CD 55 OR DECAY ACCELERATING FACTOR
 L70 546531 SEA ABB=ON GLYCOPROTEIN# OR GLYCO PROTEIN#
 L71 51 SEA ABB=ON 23132?
 L72 225456 SEA ABB=ON ADENOCARCINOMA# OR ADENO(A) CARCINOMA#
 L73 1412828 SEA ABB=ON MW OR MOL?(W) WEIGHT OR KDA OR DALTON# OR KILODALTO
 N# OR KD OR 82 OR 82000
 L74 136 SEA ABB=ON (L67 AND L68) OR ((L67 OR L68) AND (L69 OR L71))
 L75 113 SEA ABB=ON (L67 AND L68)
 L76 14 SEA ABB=ON (L67 AND L68) AND (L69 OR L71)
 L77 1 SEA ABB=ON L69 AND L71
 L78 103 SEA ABB=ON L69 AND L72
 L79 18 SEA ABB=ON L78 AND (L70 OR L73)

FILE 'STNGUIDE' ENTERED AT 16:50:09 ON 17 JAN 2007

FILE 'JICST-EPLUS, PASCAL, BIOTECHNO, BIOSIS, ESBIODBASE, BIOTECHDS,
 LIFESCI, CONFSCI, DISSABS, BIOENG, SCISEARCH' ENTERED AT 16:54:35 ON 17
 JAN 2007

D QUE L76

FILE 'MEDLINE' ENTERED AT 16:54:37 ON 17 JAN 2007

D QUE L25

FILE 'EMBASE' ENTERED AT 16:54:38 ON 17 JAN 2007

D QUE L46

FILE 'WPIX' ENTERED AT 16:54:39 ON 17 JAN 2007

D QUE L53

FILE 'CAPLUS' ENTERED AT 16:54:40 ON 17 JAN 2007

D QUE L5

D QUE L9

L80 6 SEA ABB=ON L5 OR L9
 FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE' ENTERED AT 16:55:03 ON 17 JAN 2007

FILE 'MEDLINE, CAPLUS, WPIX, PASCAL, BIOSIS, BIOTECHDS, EMBASE' ENTERED
 AT 16:58:40 ON 17 JAN 2007

L81 22 DUP REM L25 L80 L53 L76 L46 (8 DUPLICATES REMOVED)
 ANSWER '1' FROM FILE MEDLINE
 ANSWERS '2-7' FROM FILE CAPLUS
 ANSWER '8' FROM FILE WPIX
 ANSWERS '9-11' FROM FILE PASCAL
 ANSWERS '12-15' FROM FILE BIOSIS
 ANSWER '16' FROM FILE BIOTECHDS
 ANSWERS '17-22' FROM FILE EMBASE
 D IBIB ED ABS 1-22

FILE 'STNGUIDE' ENTERED AT 16:59:09 ON 17 JAN 2007

FILE 'MEDLINE' ENTERED AT 17:01:51 ON 17 JAN 2007

D QUE L32

D QUE L35

D QUE L33

L82 5 SEA ABB=ON L33 NOT L25

FILE 'EMBASE' ENTERED AT 17:01:52 ON 17 JAN 2007

D QUE L47

D QUE L49

D QUE L55

L83 3 SEA ABB=ON L47 NOT L46

FILE 'WPIX' ENTERED AT 17:01:54 ON 17 JAN 2007

D QUE L60

D QUE L61

D QUE L66

L84 4 SEA ABB=ON (L60 OR L61 OR L66) NOT L53

FILE 'CAPLUS' ENTERED AT 17:01:57 ON 17 JAN 2007

D QUE L10

D QUE L17

D QUE L22

D QUE L8

L85 14 SEA ABB=ON (L10 OR L17 OR L22) NOT L80

FILE 'JICST-EPLUS, PASCAL, BIOTECHNO, BIOSIS, ESBIODASE, BIOTECHDS,
 LIFESCI, CONFSCI, DISSABS, BIOENG, SCISEARCH' ENTERED AT 17:01:59 ON 17
 JAN 2007

D QUE L77

D QUE L79

L86 15 SEA ABB=ON (L77 OR L79) NOT L76

FILE 'STNGUIDE' ENTERED AT 17:02:11 ON 17 JAN 2007

FILE 'MEDLINE, CAPLUS, WPIX, EMBASE, JICST-EPLUS, PASCAL, BIOTECHNO,
 BIOSIS, ESBIODASE, SCISEARCH' ENTERED AT 17:02:44 ON 17 JAN 2007

L87 28 DUP REM L82 L85 L84 L83 L86 (13 DUPLICATES REMOVED)
 ANSWERS '1-5' FROM FILE MEDLINE
 ANSWERS '6-18' FROM FILE CAPLUS
 ANSWERS '19-20' FROM FILE WPIX
 ANSWERS '21-22' FROM FILE EMBASE
 ANSWER '23' FROM FILE JICST-EPLUS

ANSWER '24' FROM FILE SCAL

ANSWER '25' FROM FILE BIOSIS

ANSWERS '26-28' FROM FILE SCISEARCH

D IALL 1-5

D 1BIB ED ABS HITIND 6-18

D IALL ABEQ TECH 19-20

D IALL 21-28

FILE 'HOME' ENTERED AT 17:03:23 ON 17 JAN 2007

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